|  |  |
| --- | --- |
| **1.** | Ann’s gym charges $20 per month plus $5 per visit. Blake’s gym charges $30 per month plus $3 per visit. Ann and Blake make the same number of visits per month. How many visits would make their monthly costs equal? |
|  |
|  | |  |  | | --- | --- | | **A.** | 2 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 5 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 8 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 10 | |
|  |  |
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| --- | --- |
| **2.** | A line passes through the points (1, 4) and (5, 8). A second line passes through the points (2, 10) and (6, 4). At what point do the two lines intersect? |
|  |
|  | |  |  | | --- | --- | | **A.** | (2, 10) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (3, 6) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (4, 7) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (5, 8) | |
|  |  |
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| --- | --- |
| **3.** | A car rental company charges $34 per day for a rented car and $0.50 for every mile driven. A second car rental company charges $20 per day and $0.75 for every mile driven. What is the number of miles at which both companies charge the same amount for a one-day rental? |
|  |
|  | |  |  | | --- | --- | | **A.** | 56 miles | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 54 miles | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 36 miles | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 24 miles | |
|  |  |
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| **4.** | Line *K* is represented by the equation *y* = 2*x* + 2. Line *T* goes through the points (–3, 3) and (6, 12). What is the point of intersection for lines *K* and *T*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (1, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (2, 6) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (3, 8) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (4, 10) | |
|  |  |
|  |  |

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| --- | --- |
| **5.** | Line *J* goes through the points (6, 7) and (–2, –5). Line *K* is represented by the equation *y* = /files/assess_files/9766f0df-faba-4785-aae3-8473838ff885/7272357a-4442-4182-a995-541a44cfa805.png*x* + 2. What is the point of intersection between lines *J* and *K*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0, –2) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (1, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (2, 1) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (4, 0) | |
|  |  |
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| --- | --- |
| **6.** | Line *P* goes through the points (–5, –8) and (2, 13). Line *Q* is represented by the equation *y* = –2*x* – 8. What is the point of intersection of lines *P* and *Q*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–5, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (–3, –2) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (1, –10) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (2, –12) | |
|  |  |
|  |  |

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| --- | --- |
| **7.** | Line *H* is graphed below. Line *J* passes through the points (–6, –1) and (6, 5).  /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/59210.png  If line *J* is graphed on the same coordinate plane as line *H*, what is the point of intersection of the two lines? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–6, –1) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (–4, 0) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (0, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (4, 4) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **8.** | The graph of a line is shown below.   /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/34840.png  What is the *x*-coordinate of the point at which the line graphed above   intersects the line *y* = 1.25*x* – 3? |
|  |
|  | |  |  | | --- | --- | | **A.** | 2 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 3 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 4 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 5 | |
|  |  |
|  |  |

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| --- | --- |
| **9.** | Line *Z* is represented by the equation *y* = –6*x* + 4. Line *Q* passes through the points (–1, –8) and (2, 10). What is the point of intersection of lines *Z* and *Q*? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/23e963de-ca81-4835-8e7e-6f0826d57662/5b91f073-92ec-41d5-974c-0656be9fb8f2.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/56d1fe25-c9c5-48c5-8f7b-0f191e132b87/ac4e4df9-1e59-4d4b-9cd6-914d79e2f828.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | no solution | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | infinite solutions | |
|  |  |
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| --- | --- |
| **10.** | Line *F* is represented by the equation *y* = 2*x* + 1. Line *G* is shown on the graph below.   /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/47011.png  If line *F* is graphed on the same coordinate plane as line *G*, at what point would the two lines intersect? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/6809159d-f470-4c0a-a51e-041fbe7361dc/8281570a-4308-479a-b358-ed08f2851e94.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/59e9c0ee-3612-489e-9a61-cb70dacceda4/eba9f01a-eb7f-4545-bd06-ba83279a229f.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/08c50a26-7f9d-4d07-8eee-db26da1d8f1e/423601dd-923d-40a7-bbb2-e3e04b8f50ba.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/91671518-f2d9-4d57-8051-8f8b57b1ec58/9d4f2fed-115a-437b-89b1-2f8b6b895503.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **11.** | A system of equations is shown below.  *y =* 5*x* + 10 *y* = 10*x* – 5  What is the value of  *x + y*  ? |
|  |
|  | |  |  | | --- | --- | | **A.** | 25 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 28 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 72 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 75 | |
|  |  |
|  |  |

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| --- | --- |
| **12.** | Line *f* goes through the points (8, 1) and (–1, 7). Line *g* goes through the points (1, 3) and (–2, 3). What is the point of intersection of lines *f* and *g*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (3, 5) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (3, 7) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (5, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (7, 3) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **13.** | Line *m* is represented by the equation /files/assess_files/b30ee4ad-98ff-4c12-ba1e-6e17acbcfd7e/7b5de781-d738-4034-b24c-8ea724e2100e.png. Line *n* goes through the points (0, 4) and (–3, 4). What is the point of intersection of lines *m* and *n*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (4, –3) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (4, –4) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (18, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (18, 4) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **14.** | A system of equations is shown below.  *y* = /files/assess_files/b73739c0-97f7-4426-95d5-161a4f798fdb/a2e10b54-ee15-462e-8169-6d5e838e0cca.png*x* – 6  *y* = 3*x* + 1  What is the value of  *x*  in the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | 5 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 2 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | –2 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | –5 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **15.** | Line *F* is graphed below. Line *E*, represented by the equation *y* = –2*x* – 3, will be graphed below.  /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58342.png  What will be the point of intersection for line *E* and line *F?* |
|  |
|  | |  |  | | --- | --- | | **A.** | (–1, 1) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (–1, –1) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (–2, –4) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (–4, –2) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **16.** | Line *T* is graphed below.  /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58383.png  Which equation intersects line *T* at the point (1, 3)? |
|  |
|  | |  |  | | --- | --- | | **A.** | *y* = –2*x* + 4 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *y* = –*x* + 4 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *y* = *x* + 4 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *y* = 2*x* + 4 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **17.** | A system of equations is shown below.  *y* = 2*x* – 4  *y* = /files/assess_files/25d83335-614c-4547-9b6f-6c6fb3c381e0/1da0e963-624f-4500-8c42-46368e84c169.png*x* + 2  What is the value of  *x*  in the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | 5.6 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 4.8 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | –4.8 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | –5.6 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **18.** | Line *t* is graphed below.  /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58390.png  Line *s* goes through the points (–5, 0) and (1, 6). What is the point of intersection of lines *t* and *s*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (1, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (3, 8) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (5, 10) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **19.** | Line *N* is graphed below. Line *M*, represented by the equation *y* = 3*x* + 6, will be graphed below.  /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/57834.png  What will be the point of intersection for lines *M* and *N*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0, 6) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (1, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (2, 0) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (3, –3) | |
|  |  |
|  |  |

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| --- | --- |
| **20.** | Line *S* goes through the points (–3, 1) and (2, 6). Line *T* goes through the points (0, –3) and (–2, –7). What is the point of intersection of line *S* and line *T*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (1, –5) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (2, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (6, 10) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (7, 11) | |
|  |  |
|  |  |

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| --- | --- |
| **21.** | Line*E*is represented by the equation *y* = 2*x* + 3. Line *F* goes through the points (–3, 2) and (3, 8). What is the point of intersection of lines *E* and *F*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–1, 1) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (0, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (1, 5) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (2, 7) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **22.** | Line *m* is graphed below.  /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/60628.png  Line *n* is represented by the equation *y* = –1.5x – 2. What is the *y-*value of the point of intersection for the two lines? |
|  |
|  | |  |  | | --- | --- | | **A.** | –2 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | –1 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 1 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 2 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **23.** | Line *k* goes through the points (–5, 3) and (–2, 1). Line *m* goes through the points (0, –3) and (2, 1). What is the point of intersection of lines *k* and *m*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–1, 1) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (1, –1) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (1, 0) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (2, 1) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **24.** | Line *K* passes through the points (–2, 10) and (4, –2). The equation for line *M* is *y* = 4*x* + 3. What is the point of intersection for lines *K* and *M*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0.5, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (0.5, 5) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (1, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (1, 5) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **25.** | Line *p* passes through points (4, 5) and (–4, –1). Line *v* passes through points (–2, 5) and (2, –1). What is the point of intersection of lines *p* and *v*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (2, 0) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (0, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (0, –2) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (–2, 0) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **26.** | Line *N* is represented by the equation *y* = /files/assess_files/cd1cbded-282a-42ae-a079-6c655b7f17da/70e1eee2-7bcf-4893-9a1b-fdc3b2fc3c1d.png*x* + 5. Line *M* is graphed below.   /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58384.png  If line *N* is graphed on the same coordinate grid as line *M*, what will be the point of intersection? |
|  |
|  | |  |  | | --- | --- | | **A.** | (2, 1) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (2, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (3, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (4, 3) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **27.** | Line *N* is represented by the equation /files/assess_files/669d4b9d-3c7d-40e1-bf53-c3700911d457/2a694d61-ddb9-4c4b-a23a-eff535e00396.png. Line *M* is graphed below.  /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/46110.png  If line *N* is graphed on the same coordinate plane as line *M*, at what point will the two lines intersect? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–4, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (–2, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (–1, 1) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (0, 4) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **28.** | A system of equations is shown below.  *y* = 3*x* – 2 *y* = 4*x* – 5  What is the  *x*  -value in the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | 3 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 5 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 7 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 10 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **29.** | A system of equations is shown below.  *y* = –2*x* + 1 *y* = 4*x* + 7  What is the value of  *x*  +  *y*  in the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | –4 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | –2 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | –1 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 2 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **30.** | Line *g* is graphed below. Line *h*, represented by the equation *y* = 3*x* + 10, will be graphed below.   /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/59585.png  What will be the point of intersection of lines *g* and *h*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–6, 0) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (–3, 1) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (0, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (3, 3) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **31.** | Line *Z* passes through the points (–1, 4) and (1, 12). The equation for line *W* is *y* = 2*x* – 6. What is the point of intersection for lines *Z* and *W*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0, –6) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (0, 8) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (–6, –18) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (–7, –20) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **32.** | Line *n* passes through the points (1, –4) and (4, 8). Line *m* is shown on the graph below.  /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/47088.png  If line *n* is graphed on the same coordinate plane as line *m*, what is the point of intersection of lines *m* and *n*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (2, 0) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (2, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (3, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (4, 3) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **33.** | Line *Q* is graphed below.  /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/46975.png  Line *R* passes through the points (3, 5) and (–1, 1). What is the point of intersection of lines *Q* and *R*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (1, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (2, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (3, 1) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **34.** | Line *m* is graphed below.   /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/35761.png  Which equation, when graphed, will intersect line *m* at (4, –1)? |
|  |
|  | |  |  | | --- | --- | | **A.** | *y* = 2*x* – 9 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *y* = 2*x* – 6 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *y* = 2*x* + 5 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *y* = 2*x* + 6 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **35.** | Line *h* is graphed below. The equation of line *k* is /files/assess_files/31d7730c-b4a5-4d70-bfe5-677c2fd0dcdd/ffc64a63-db4a-482d-a259-1ea8a0d9449d.png.  /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/34841.png  What is the point of intersection of the two lines? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–6, –5) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (–5, –6) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (–4, –1) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (–2, 3) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **36.** | A line is graphed below.   /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58549.png  If a line represented by the equation *y* = 0.25*x* – 1 were graphed on the same coordinate plane, what would be the point of intersection? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–6, –2.5) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (–6, –1.5) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (–2, –1.5) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (–2, –0.5) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **37.** | Which statement is true about the system of equations shown below?  *y* = 6*x* + 4  *y* = 2(3*x* + 2) |
|  |
|  | |  |  | | --- | --- | | **A.** | The solution is /files/assess_files/7bda5cc7-e135-4261-bf9d-5b0a6a605741/3472923a-8304-4766-9cd8-478a2be4046b.png. | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | The solution is /files/assess_files/a87ea7f7-f92f-4110-9248-bb17c690dd2b/afa84d7c-64f4-4bd0-b626-7d37b482d097.png. | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | There is no solution. | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | There are infinite solutions. | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **38.** | A system of equations is shown below.  *y* = 3*x* + 4  *y* = 5*x* + 3  Using the solution to the system, what is the value of  *y*  –  *x*  ? |
|  |
|  | |  |  | | --- | --- | | **A.** | 2 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 3 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 5 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 6 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **39.** | A system of equations is shown below.  *y* = –20*x* – 20  *y* = –10*x* + 40  What is the value of  *y*  in the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | 20 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 40 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 60 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 100 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **40.** | A system of equations is shown below.  *y* = –2*x* + 1  *y* = –*x* – 2  What is the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | (3, –5) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (1, –1) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (–1, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (–3, 7) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **41.** | James paid an initial fee of $6.00 for a movie rental service. Each time he rents a movie he is charged $2.00. Sarah uses a different movie rental service that charges based on the equation *y* = 3*x* + 4, where *y* is the total cost and *x* is the number of movies rented. At what point are the prices of the two services the same? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0.6, 0.6) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (0.6, 6) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (2, 10) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (10, 2) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **42.** | A system of equations is shown below.  /files/assess_files/e8b803aa-2f53-4acb-a541-744567b1843d/801236b2-f2fd-40e4-8ee2-81ed87ff2ec8.png  /files/assess_files/e8b803aa-2f53-4acb-a541-744567b1843d/a6111034-af08-4c34-a40e-0ab6d9093c42.png  What is the value of  *x*  that makes the system of equations true? |
|  |
|  | |  |  | | --- | --- | | **A.** | *x = –*2 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *x = –*0.4 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *x* = 1.7 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *x* = 2 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **43.** | What is the solution to the system of equations below?  /files/assess_files/02ca87a3-2ea9-4522-a77a-4c7816282b29/fcbc41ee-b6ec-4b66-a154-25974e604090.png /files/assess_files/02ca87a3-2ea9-4522-a77a-4c7816282b29/693c2235-1637-46f5-a976-c5ad5f46c283.png |
|  |
|  | |  |  | | --- | --- | | **A.** | (2, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (2, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (3, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (3, 5) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **44.** | A line is graphed below.  /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58548.png  Which equation would intersect the line on the graph at the point (–2, –2)? |
|  |
|  | |  |  | | --- | --- | | **A.** | *y =* 3*x* + 4 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *y =* 2*x* – 6 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *y = –x* + 4 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *y = –*3*x –* 4 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **45.** | Line *w* goes through the points (1, 3) and (–2, –3). Line *z* goes through the points (–4, 0) and (2, –2). What is the point of intersection of lines *w* and *z*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0, 1) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (0, –1) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (–1, –1) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (–2, –1) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **46.** | Line *g* is on the graph below. Line *h*, represented by the equation /files/assess_files/4c73f377-bb7a-4f62-af83-81b07285b521/014da0f8-3cb9-4c6c-b873-9b96e770b5a8.png, will be graphed below.  /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/27420.png  What will be the point of intersection of lines  *g*  and  *h*  ? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–3, –2) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (–2, –3) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (2, –3) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (3, –2) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **47.** | Line *s* goes through the points (–2, –6) and (4, 2). Line *t* goes through the points (–2, 4) and (4, –8). What is the point of intersection of lines *s* and *t*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (2, –1) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (1, –2) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (–1, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (–2, 1) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **48.** | A system of equations is shown below.  *y* = 2*x* – 1  *y* = 3*x* – 5  What is the  *y*  -value in the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | –13 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | –6 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 4 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 7 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **49.** | A system of equations is shown below.  *y* = 2*x* + 1  *y* = *x* + 2  What is the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0, 1) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (1, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (1, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (2, 4) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **50.** | A system of equations is shown below.  *y* = –4  *y* = *x* + 4  What is the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–8, –4) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (8, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (–4, 0) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (–4, –4) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **51.** | A system of equations is shown below.  /files/assess_files/c4589758-088b-4e1e-bb56-719b2b23cdc9/e132c625-50e8-43ce-b580-f752ca81939a.png  What is the  *x*  -value in the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | –4 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | –3 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | –2 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | –1 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **52.** | A system of equations is shown below.  *y* = 4*x*  *y* = *x* – 6  What is the  *x-*  value in the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | –8 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | –2 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 2 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 8 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **53.** | Line *j* goes through the points (–1, 2) and (2, –1). Line *k* goes through the points (5, 2) and (4, 0). What is the point of intersection for line *j* and line *k*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (2, –1) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (3, –2) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (4, 0) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (6, –5) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **54.** | Which ordered pair would be the point of intersection of the graph below and *y* = *x* + 1?  /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/27415.png |
|  |
|  | |  |  | | --- | --- | | **A.** | (0, 5) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (1, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (2, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (3, 4) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **55.** | The line of the equation *y* = –4x – 5 will be graphed on the coordinate plane, intersecting the line below.  /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/27413.png  What will be the point of intersection of the two lines? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (0, –5) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (–2, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (3, –2) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **56.** | A system of equations is shown below.  /files/assess_files/e768a0bb-b98d-4325-a6b9-5f6754e0e530/9912fe1d-8c61-4b5d-98c1-41e3a166b934.png  /files/assess_files/e768a0bb-b98d-4325-a6b9-5f6754e0e530/8eb2878a-d04f-46f2-a5b2-022088fed587.png  What is the solution to the system? |
|  |
|  | |  |  | | --- | --- | | **A.** | (2, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (3, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (5, 6) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (6, 5) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **57.** | Which equation intersects the line graphed below when *x* = 1?  /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/27417.png |
|  |
|  | |  |  | | --- | --- | | **A.** | *y* = –*x* – 4 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *y* = –*x* + 4 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *y* = *x* – 4 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *y* = *x* + 4 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **58.** | Line *p* passes through the points (–4, –2) and (0, 0). Line *r* passes through the points (–1, –8) and (2, –2). What is the point of intersection of lines *p* and *r*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (1, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (3, 0) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (3, 1) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (4, 2) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **59.** | A system of equations is shown below.  *y* = /files/assess_files/831f73e5-1f8f-4f2f-a455-488a5c5b3aec/ca374e35-3213-436f-9da7-f7d785fa40f9.png*x* – 7 *y* = /files/assess_files/831f73e5-1f8f-4f2f-a455-488a5c5b3aec/3bfc30f3-416b-430d-bceb-ce911580714a.png*x* – 5  What is the solution to the system of equations? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–11, –3) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (–1, 8) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (6, –2) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (8, –1) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **60.** | A system of equations is shown below.  *y* = 3*x* – 6 *y* = 2*x* + 2  What is the solution to the system of equations? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–8, –14) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (–4, –6) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (4, 6) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (8, 18) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **61.** | Which graph shows a system of equations that has a solution of (4, 1)? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/27424.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/27425.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/27426.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/27427.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **62.** | Line *F* goes through the points (0, 6) and (6, –3). Line *G* is graphed below.   /files/assess_files/772729da-12d6-4913-9d51-3303fe248bd9/46127.png  If line *F* is graphed on the same coordinate plane as line *G*, at what point will the two lines intersect? |
|  |
|  | |  |  | | --- | --- | | **A.** | (1, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (2, 1) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (2, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (3, 2) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **63.** | A line is graphed below.  /files/assess_files/772729da-12d6-4913-9d51-3303fe248bd9/59576.png  If a line that goes through the points (4, –5) and (7, –14) is graphed above, at what point will the two lines intersect? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–2, –7) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (0, –3) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (1, –1) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (2, 1) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **64.** | Line *s* is represented by the equation *y* = –*x* + 3. Line *t* goes through the points (5, 1) and (3, –3). What is the point of intersection for lines *s* and *t*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0, 3) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (3, –3) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (4, –1) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (3, 0) | |
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|  |  |
| --- | --- |
| **65.** | A system of equations is shown below.  *y* = /files/assess_files/d78a84a8-9b81-4781-9121-994521023f90/0423e8b3-e7b5-40fe-a01a-c7b3a42cc47a.png*x* + 11 *y* = /files/assess_files/d78a84a8-9b81-4781-9121-994521023f90/42cd66a5-8b3e-475e-9f86-2aa6913a8e1c.png*x* + 13  What is the solution to the system of equations? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–8, 7) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (–2, 10) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (4, 16) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (8, 15) | |
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| --- | --- |
| **66.** | A system of equations is shown below.  /files/assess_files/65e7956c-c010-479f-9ea6-ab094a554eeb/bd6f62c2-0d70-4d05-9e0b-e864a192a455.png  What is the  *x*  -value of the solution to the system of equations? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/a717fa4e-8d03-48c0-bda4-cf48d8b20dca/231d69c1-eb64-4e52-9e6e-943c03d6aa7f.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/1538f785-37a5-4dc8-9fff-7038a5392ac5/e9927442-f282-4d96-b4cb-85691ae94662.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/da0b1130-20e9-429c-9a6d-9fab096e93d1/439f3eab-4dcf-49c4-9e2d-c0f79997e83c.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/b7693bb7-7f22-4fa9-8066-8f1431679641/89feaa6c-fd50-4c23-bb02-4461635dbb4f.png | |
|  |  |
|  |  |

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| --- | --- |
| **67.** | A system of equations is shown below.  /files/assess_files/a4275e59-971b-45c7-a83e-1b11eeef3797/50b7c718-9865-495e-838b-5cb1d84c4efb.png  What is the solution to the system of equations? |
|  |
|  | |  |  | | --- | --- | | **A.** | infinite solutions | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | no solution | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (6, –9) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (–9, 6) | |
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| --- | --- |
| **68.** | The tickets to a high school hockey game cost either $6 or $11. A total of 450 tickets, worth $3,950, were sold. How much of the $3,950 was made from selling the $6 tickets? |
|  |
|  | |  |  | | --- | --- | | **A.** | $2,750 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | $1,200 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | $250 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | $200 | |
|  |  |
|  |  |

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| --- | --- |
| **69.** | What is the y-value of the solution to the system of equations shown below?  /files/assess_files/21ead4d2-4c85-4cc4-a2ac-32eb6d8964c4/images/764be8c393701fc2f11f76e72f55b6de.png |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/d5a0a2ca-acb1-43d5-9bf1-bdedc2edac00/images/f3a4422b9b99a0f4dd861b09919daaef.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/c83048e2-df9a-48a9-bf93-6e9ed7512079/images/b38c4b107d3684543ec7f0d7623571be.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/4191885d-2849-42f8-be94-627694fc3adc/images/23900773a9463eba5c75803e12cbec46.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/337345f0-9055-426f-a810-2f621e20beb5/images/2b9757976b2234914627c4c47dbcec45.png | |
|  |  |
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| --- | --- |
| **70.** | If the system of equations represented by /files/assess_files/5d30e998-3629-46f5-bbe3-03e4bcd4b24f/images/2212e767188c92b3ece6fdd51f130fb7.png and /files/assess_files/5d30e998-3629-46f5-bbe3-03e4bcd4b24f/images/de788d5d73637a90dc3356a82ff6cc34.png has no solution, what must be true of these equations? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/58978ba8-d6c9-465a-86f8-5bfd8859a6fa/images/f7d86003dfd8823179255617478389eb.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/d936c00c-17db-455f-89e6-2513aaf95e09/images/36d9956d481949d414c01c02760f3cdc.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/6732bb52-7ea0-4c02-971d-5e224ba44d08/images/c438c92d71560bace7144f9fa0c44b6c.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/c7a46ed8-a7be-4b6b-a022-26e6b3c04c78/images/cef5a223b39118cda45e6c79525f6152.png | |
|  |  |
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| --- | --- |
| **71.** | Which statement is **correct** for the pair of linear equations shown below?  /files/assess_files/8d1f56c9-d9af-41b4-aa82-44b20c18134e/images/bd57617aa14e350835c0661eab3aef66.png |
|  |
|  | |  |  | | --- | --- | | **A.** | The equations intersect at /files/assess_files/663f1b89-0f3c-4650-8032-227654379e6a/images/df5246eac28fc5b7f7a8c9a967c2b75d.png because *y* is equal to /files/assess_files/663f1b89-0f3c-4650-8032-227654379e6a/images/33cc5bdf0da44da7de561d0cbe921418.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | The equations intersect at /files/assess_files/04396623-9580-452d-8ffe-9c7dc86de9ec/images/f1d223ebcb5347beef3463e32ff8eb89.png or 5 because *y* is equal to /files/assess_files/04396623-9580-452d-8ffe-9c7dc86de9ec/images/33cc5bdf0da44da7de561d0cbe921418_1.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | The equations represent the same line because /files/assess_files/05d871bd-a4bb-42bf-b29f-9238c9a803ff/images/41b990ac1b67b3742a54f442e5faa3d1.png is always equal to /files/assess_files/05d871bd-a4bb-42bf-b29f-9238c9a803ff/images/11d90284de482ac62ca6eb6ce75448a6.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | The equations represent parallel lines because /files/assess_files/a80e9575-7565-48d5-8342-d7968dde44ae/images/41b990ac1b67b3742a54f442e5faa3d1_1.png cannot be equal to both *y* and /files/assess_files/a80e9575-7565-48d5-8342-d7968dde44ae/images/33cc5bdf0da44da7de561d0cbe921418_12.png | |
|  |  |
|  |  |