|  |  |
| --- | --- |
| **1.** | In which set of points is *y* a function of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (0, 9), (1, 9), (0, 10), (1, 10) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (3, 7), (4, 4), (3, –7), (–5, 8) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (0, 2), (1, 2), (2, 2), (3, 2) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (0, 4), (3, 4), (7, 6), (0, –2) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **2.** | In which choice is *y* a function of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–2, 3), (0, 2), (–1, 1), (0, 0) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (4, 1), (1, 4), (–4, 1), (–1, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (4, 1), (4, 2), (4, 3), (4, 4) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (0, 2), (1, 1), (3, 0), (0, –2) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **3.** | In which table is *y* a function of *x*? |
|  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **A.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 1 | 0 | | 2 | 1 | | 2 | 2 | | 1 | 3 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **B.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 5 | 2 | | 4 | 3 | | 3 | 2 | | 2 | 1 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **C.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –3 | 2 | | –1 | 4 | | 1 | 6 | | –3 | 8 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **D.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 3 | –7 | | 1 | –5 | | 1 | –3 | | –5 | –1 | | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **4.** | A set of points is shown below in which *y* is a function of *x*.  (1, 3), (2, 5), (*k* + 2, 7), (*k*, 2), (4, 7)  Which could be the value of  *k*  ? |
|  |
|  | |  |  | | --- | --- | | **A.** | 1 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 2 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 3 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 4 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **5.** | Which relation is a function? |
|  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **A.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –2 | 4 | | –3 | 6 | | –2 | 7 | | 4 | 2 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **B.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 6 | 12 | | 4 | 14 | | 6 | 13 | | 7 | 16 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **C.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –2 | 6 | | –4 | 8 | | –6 | 10 | | –8 | 6 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **D.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –6 | 5 | | –6 | 8 | | –6 | 12 | | –6 | –4 | | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **6.** | Which relation is ***not*** a function? |
|  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **A.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –3 | 5 | | –5 | 7 | | –14 | 9 | | –15 | 11 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **B.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 6 | 2 | | 10 | 3 | | 10 | 4 | | 12 | 5 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **C.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –2 | 5 | | –4 | 5 | | –8 | 5 | | –10 | 5 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **D.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –10 | –1 | | –7 | –1 | | –6 | –2 | | –2 | –3 | | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **7.** | In which set of points is *y****not*** a function of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | {(0, 2), (8, 4), (–3, 2)} | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | {(5, 8), (–6, 8), (9, 10)} | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | {(4, 10), (–4, 3), (4, 9)} | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | {(0, 1), (1, 1), (2, 1)} | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **8.** | In the set of points below, *y* is a function of *x*.  (3, 4), (4, 10), (5, 9), (7, 6), (8, 8), (*x*, 10)  Which could be the value of  *x*  ? |
|  |
|  | |  |  | | --- | --- | | **A.** | 3 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 6 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 7 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 8 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **9.** | In which graph is *y* a function of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28746.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28747.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28748.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28749.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **10.** | In which graph is *y****not*** a function of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/42932.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/42933.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/42934.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/42935.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **11.** | Which graph is ***not*** a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58758.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58759.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58760.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58761.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **12.** | In which set of points is *y****not*** a function of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | (–3, –1), (–2, 5), (–4, –6), (–9, 5) | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | (9, –3), (–3, –9), (–4, –3), (–9, –9) | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | (–3, 0), (0, –3), (–9, 4), (–3, 9) | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | (9, –8), (–3, –3), (–6, –9), (–9, 0) | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **13.** | Which graph does ***not*** represent a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58799.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58800.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58801.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58802.png | |
|  |  |
|  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **14.** | In the table below,  *y*  is a function of  *x*  .   |  |  | | --- | --- | | ***x*** | ***y*** | | 1 | 4 | | 7 | 3 | | ? | 5 | | 9 | 5 |   Which statement is true about the possible value of the missing number in the table? |
|  |
|  | |  |  | | --- | --- | | **A.** | The missing number must be 9. | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | The missing number can have any value. | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | The missing number can have any value except 1 and 7. | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | The missing number can have any value except 1, 7, and 9. | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **15.** | In which choice is *y****not*** a function of *x*? |
|  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **A.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –3 | 2 | | –2 | 2 | | –1 | 2 | | 0 | 2 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **B.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –10 | –10 | | –5 | –5 | | 5 | 5 | | 10 | 10 | | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/42917.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/42918.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **16.** | A relation is shown below.  {(4, 2), (5, 2), (6, 6), (0, 0), (–4, 4)}  Is the relation a function and why or why not? |
|  |
|  | |  |  | | --- | --- | | **A.** | No, because each input has only one output. | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | No, because each output has only one input. | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | Yes, because each input has only one output. | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | Yes, because each output has only one input. | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **17.** | Which table represents a function? |
|  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **A.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 1 | –4 | | 2 | 3 | | 3 | 6 | | 3 | –2 | | 4 | 5 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **B.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 1 | –4 | | 2 | 3 | | 3 | 3 | | 4 | –2 | | 4 | 5 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **C.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –4 | –4 | | –2 | –2 | | 3 | 3 | | 4 | –4 | | 4 | 4 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **D.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 1 | –4 | | 2 | 3 | | 3 | 3 | | 4 | –2 | | 5 | 3 | | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **18.** | A set of ordered pairs is shown below.  {(2, 5), (3, 7), (4, 9), (*x*, 3)}  Which value of  *x*  makes this a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | 2 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 3 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 4 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 5 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **19.** | Which relation represents a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/62776.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/62777.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58596.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/d1181b8d-e1dd-4ed8-bb76-e9312b19aac3/58597.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **20.** | The relation (–2, 5), (4, –2), (6, –1), and (*x*, 8) is a function. Which could be the value of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | –8 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | –2 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 4 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 6 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **21.** | Which set of points represents a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | {(3, 2), (5, 3), (7, 4), (5, 5)} | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | {(6, –2), (4, –4), (–6, 0), (4, 5)} | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | {(–8, 2), (–6, –2), (–4, –1), (8, –2)} | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | {(–10, –9), (–12, –8), (–14, –7), (–12, –6)} | |
|  |  |
|  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **22.** | In the table below,  *y*  is a function of  *x*  .   |  |  | | --- | --- | | ***x*** | ***y*** | | –5 | 6 | | –3 | 3 | | *x* | 0 | | 2 | 5 |   Which could be the value of  *x*  ? |
|  |
|  | |  |  | | --- | --- | | **A.** | –5 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | –3 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 2 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 5 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **23.** | In which table is *y****not*** a function of *x*? |
|  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **A.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –2 | 3 | | 1 | 6 | | 3 | 8 | | 6 | 11 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **B.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –6 | –1 | | –3 | –4 | | –2 | –6 | | –3 | –9 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **C.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 1 | 2 | | 2 | 3 | | 3 | 4 | | 4 | 2 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **D.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 6 | 4 | | 2 | 3 | | –2 | 2 | | –6 | 1 | | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **24.** | Which set of ordered pairs represents a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | {(3, 18), (11, –2), (1, 9), (3, 11)} | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | {(7, 19), (6, 12), (–7, 7), (3, 1)} | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | {(–2, 1), (1, 0), (2, 1), (–2, 0)} | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | {(8, 4), (4, 8), (8, 1), (–8, 6)} | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **25.** | Which set of coordinates represents a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | {(0, 1), (1, 3), (2, 5), (3, 7)} | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | {(–1, 2), (–1, 3), (0, 4), (0, 5)} | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | {(–1, 2), (0, 4), (1, 6), (1, 8)} | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | {(1, 1), (1, –1), (2, 2), (2, –2)} | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **26.** | The set of ordered pairs {(–2, 4), (*x*, 1), (1, 3), (2, 4)} is a function. Which is a possible value for *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | –2 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 1 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 2 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 3 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **27.** | Which equation is not a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | *y = |x|* | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *y = x*2 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *x =* 10 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *y* = 0.5 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **28.** | Which graph below is a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28113.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28114.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28115.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28116.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **29.** | Which equation is ***not*** a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | *y* = *x* | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *y* = |*x*| | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *x* = *y* + 4 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *x* = |*y* + 4| | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **30.** | Which table of ordered pairs is a function? |
|  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **A.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 0 | –4 | | 1 | –2 | | 1 | –3 | | 2 | –2 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **B.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –5 | –5 | | –8 | 8 | | –8 | –8 | | –12 | –12 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **C.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 3 | 3 | | 2 | 2 | | –2 | –2 | | –3 | –3 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **D.** | |  |  | | --- | --- | | ***x*** | **y** | | 8 | 16 | | 7 | 14 | | 6 | 12 | | 6 | 10 | | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **31.** | In which set of ordered pairs is *y* a function of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | {(–1, 2), (0, 1), (0, 2), (1, 1)} | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | {(–4, 1), (–3, 1), (–2, 1), (–1, 1)} | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | {(1, –4), (1, –3), (1, –2), (1, –1)} | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | {(2, 5), (3, 6), (6, 5), (2, 7)} | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **32.** | The relation (8, 5), (*x*, 4), (3, 3), and (2, 2) is a function. Which could be the value of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | 8 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 4 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 3 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 2 | |
|  |  |
|  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **33.** | Which is a possible value for  *n*  , if  *y*  is a function of  *x*  ?   |  |  | | --- | --- | | ***x*** | ***y*** | | 3 | –2 | | –2 | 7 | | 0 | –2 | | 2 | 4 | | *n* | 6 | |
|  |
|  | |  |  | | --- | --- | | **A.** | 3 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 0 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | –2 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | –9 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **34.** | Which choice represents a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | *x* = 4 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *y = x* – 9 | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **C.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –2 | 3 | | 4 | 3 | | –1 | 4 | | –2 | 4 | | 5 | 5 | | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | {(2, 3), (4, 5), (6, 7), (2, 9), (3, 10)} | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **35.** | In which table is *y****not*** a function of *x*? |
|  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **A.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 1 | 4 | | 2 | 8 | | 4 | 16 | | 8 | 32 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **B.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 1 | 12 | | 2 | 12 | | 3 | 12 | | 4 | 12 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **C.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 2 | 4 | | 3 | 9 | | 4 | 16 | | 5 | 25 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **D.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 2 | 11 | | 2 | 12 | | 2 | 13 | | 2 | 14 | | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **36.** | Which graph represents a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28109.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28110.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28111.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28112.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **37.** | Which equation is ***not*** a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | *x =* 3 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *y = x* | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *y =* 4*x* | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *y = x*2 + 1 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **38.** | Which equation is ***not*** a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | *y* = *x*2 + 9 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *y* = –2 – 2*x* | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *x* = *y* | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *x* = 3 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **39.** | For the relation {(7, –3), (8, 4), (–5, 3), (*x*, 8)} to be a function, *x* can be which value? |
|  |
|  | |  |  | | --- | --- | | **A.** | 8 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 7 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | –5 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | –8 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **40.** | Which set of ordered pairs is a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | {(3, 8), (4, 1), (5, 3), (6, 1)} | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | {(2, 4), (–3, 5), (2, 7), (5, 9)} | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | {(–1, 6), (0, 3), (1, 5), (0, –2)} | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | {(4, 1), (3, –2), (1, –2), (4, 5)} | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **41.** | In which table is *y* a linear function of *x*? |
|  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **A.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –4 | –3 | | –2 | 1 | | 0 | 5 | | 2 | 9 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **B.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –3 | –9 | | –2 | –4 | | –1 | –1 | | 0 | 0 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **C.** | |  |  | | --- | --- | | ***x*** | ***y*** | | 1 | 1 | | 2 | 8 | | –1 | –1 | | –2 | –8 | | |
|  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **D.** | |  |  | | --- | --- | | ***x*** | ***y*** | | –1 | 1 | | –2 | –2 | | –3 | 3 | | –4 | –4 | | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **42.** | In which set of ordered pairs is *y* ***not*** a function of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | {(–9, –1), (–7, –3), (–5, –8)} | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | {(4, –7), (8, –3), (12, –5)} | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | {(0, 2), (4, 3), (8, 1)} | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | {(4, 6), (10, 6), (10, 8)} | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **43.** | In which graph is *y****not*** a function of *x*? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28251.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28253.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28254.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28255.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **44.** | Which graph is a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28750.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28751.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28752.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/1ed36203-cb1b-4334-bddf-3c1d03c5b989/28753.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **45.** | Which equation is ***not*** a linear function? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/3f2b99bd-29e1-436d-80ee-8cf3faf3502b/769a402e-e782-4b10-ae12-cc14df1f175f.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/9ef00482-7e54-417f-bdf2-6ca51f2ace10/5a1cecba-ff07-473c-8d1b-c775b195b02d.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/52ceb188-ba73-4a6e-b8cd-3552a45c8c7c/96734055-5dd6-4fc6-8f23-6aefb73dd7c6.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/17cb2745-4d65-4b91-83f7-6d73702bd36b/9990adef-856c-4f5c-b316-b8a896fe90a8.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **46.** | A set of data is shown below.  {(3, 5), (5, 8), (6, 9), (*x*, 11)}  Which  *x*  -value would make the set of data  ***not***  a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | 11 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 9 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 8 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 3 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **47.** | Sarah has been keeping track of how many hours she practices basketball each week and thinks that the percentage of free throws she makes during practice improves the more she practices. To check this, she makes a graph comparing the number of hours she practices each week with the percentage of free throws she makes each week. Based on what she learned in her Algebra class, she realizes that her graph represents a function. Which of these could be Sarah’s graph? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/f83803c7-8325-4d99-a3a3-daa0dc33cbfc/images/87821df5-859c-4be0-a5c6-08fb46c6ce86_30059 A1.gif | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/ef560adf-804a-4013-b836-3fa0e568db24/images/87821df5-859c-4be0-a5c6-08fb46c6ce86_30059 B.gif | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/eb2b5fe9-b964-4085-a65b-e29e463bad1a/images/87821df5-859c-4be0-a5c6-08fb46c6ce86_30059 C.gif | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/53d390e9-e5ac-4c9c-9127-24384f1e02fb/images/87821df5-859c-4be0-a5c6-08fb46c6ce86_30059 CA.gif | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **48.** | Which sets of ordered pairs below describe a function?  I. /files/assess_files/8861cf82-dc1e-495c-9d2c-6e3e932e901e/images/3b8acc06c1d7de26a42da2aed8ca3c7c.png    II. /files/assess_files/8861cf82-dc1e-495c-9d2c-6e3e932e901e/images/5672cbffd91d38e9b486f178c0fcabd7.png    III. /files/assess_files/8861cf82-dc1e-495c-9d2c-6e3e932e901e/images/a9d7c002c3cd798499633552f26992f9.png    IV.  /files/assess_files/8861cf82-dc1e-495c-9d2c-6e3e932e901e/images/e684cdb4124cabfeb2d8a4829bfe7bc6.png |
|  |
|  | |  |  | | --- | --- | | **A.** | I and II | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | II and III | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | III and IV | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | IV and I | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **49.** | Which function would also include the ordered pairs /files/assess_files/b901615d-921c-4140-a349-493f78d48835/images/e094dbd383d2a2333efae926dc824f1a.png and /files/assess_files/b901615d-921c-4140-a349-493f78d48835/images/35a1c9b359f2f01b8ba4e643741aafe6.png |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/71c173c6-d23f-4686-a18a-e6bc601731a0/images/ab6899bf-6fe3-40f3-8957-b100cb5e024b_a357239.gif | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/671e729a-c0e2-46ba-82b0-b7d1914dc566/images/ab6899bf-6fe3-40f3-8957-b100cb5e024b_a357240.gif | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/ce042bdd-3a36-4f2e-8ef9-d92a4f0768af/images/ab6899bf-6fe3-40f3-8957-b100cb5e024b_a357241.gif | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/d9423b67-f209-4328-b4f3-5e943535137b/images/ab6899bf-6fe3-40f3-8957-b100cb5e024b_a357242.gif | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **50.** | Which of the following relations is **not** a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/3542f5d6-140d-4e3e-9e27-93615d21ff62/images/05f8cdfd52f8fdee4d6bc27e417e6965.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/76c8b6b8-7498-4c9c-848a-9461f6062b32/images/66c8019a724eb8888792a4e9086930ce.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/703949b7-d71f-4dc2-881e-c866aca07000/images/b133b1397a169e669f4929d8b09f945b.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/12f76911-1f9a-468a-8521-ccf653d156c0/images/a4bd7ad5d5dbb2109508ed836e207f96.png | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **51.** | Which of these relations is NOT a function? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/9ba0e3ae-c9a2-4dd8-b8c5-83b75bb698ca/images/49d2a56ce1b976f7fc5ff63a5fa13b58.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/84c5ed35-3c7c-448b-ba33-f5976a040623/images/646f5925c63fa8432448fdb330791077.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/b5291d2e-a3c8-4aec-a0ac-5db9da349eb3/images/3b3bd94c92e0492c62ad83b30f3b28b6.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/37af8e09-6af8-4042-ad1e-565494121b5f/images/956f9d85d530862dfdcb0385aba23035.png | |
|  |  |
|  |  |