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| **1.** | **The tables below show five points on the lines of two different linear equations.**

|  |
| --- |
| **Line 1** |
|

|  |  |
| --- | --- |
| ***x*** | ***y*** |
| 1 | 3 |
| 2 | 5 |
| 3 | 7 |
| 4 | 9 |
| 5 | 11 |

 |
| **Line 2** |
|

|  |  |
| --- | --- |
| ***x*** | ***y*** |
| 1 | 15 |
| 2 | 13 |
| 3 | 11 |
| 4 | 9 |
| 5 | 7 |

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**Jenna concludes that (4, 9) is the solution to the system of these two equations. Which of the following justifies her conclusion?** |
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| **A.** | The point (4, 9) appears in both tables. |

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| **B.** | Only these two lines contain the point (4, 9). |

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| **C.** | These two lines have the same rate of change. |

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| **D.** | These two lines are perpendicular to each other. |

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| **2.** | **The equations below represent the total amount charged, *y*, by two different plumbers as a function of the number of hours worked, *x*.** **Plumber A:** /files/assess_files/ae3e6011-ed36-46ed-ba86-be23c59e5905/f6f63f23-6f8c-4fc8-8e1d-0f39c724dce3.png**Plumber B:** /files/assess_files/ae3e6011-ed36-46ed-ba86-be23c59e5905/5a6946a4-14e2-4fec-87de-6f65eb4fce47.png**The graphs of these functions cross at the point (3, 120). What does the point (3, 120) signify?** |
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| **A.** | The point (3, 120) is the slope of the system of equations. |

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| **B.** | The point (3, 120) is when the plumbers worked 120 hours. |

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| **C.** | The point (3, 120) is the *y*-intercept of the system of equations. |

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| **D.** | The point (3, 120) is the solution for the system of equations. |

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| **3.** | **A system of linear equations is graphed below.**/files/assess_files/d7cf7c06-fce1-4b85-b496-1825e22ecccf/184015.jpg**Which coordinate point represents the solution?** |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | (2, 2) |

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| **B.** | (0, 40) |

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| **C.** | (40, 0) |

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| **D.** | (20, 20) |

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| **4.** | **The pair of linear equations** /files/assess_files/f14428c7-cdb6-4131-8ada-a88f5497ef42/3719e907-7dca-485c-8f00-5c789eaacc13.png **is graphed below.**/files/assess_files/d7cf7c06-fce1-4b85-b496-1825e22ecccf/184014.jpg**Which values for *x* and *y* will satisfy both linear equations?** |
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| **A.** | *x* = 0, *y* = 7 |

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| **B.** | *x* = – 7, *y* = 0 |

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| --- | --- |
| **C.** | *x* = 3, *y* = – 4 |

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| **D.** | *x* = – 4, *y* = 3 |

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| **5.** | **The graph of a pair of linear equations is shown in the coordinate plane below.**/files/assess_files/54e518b7-10a8-4f20-bd84-09f882863c2c/0d733f95-d77c-42bf-8ed8-de272233003a.png/files/assess_files/d7cf7c06-fce1-4b85-b496-1825e22ecccf/184010.jpg**Which value is the *x*-coordinate of the solution?** |
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| **A.** | – 5 |

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| --- | --- |
| **B.** | – 3 |

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| --- | --- |
| **C.** | – 2 |

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| --- | --- |
| **D.** | 0 |

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| **6.** | **The linear equations graphed in the coordinate plane below intersect.** /files/assess_files/d7cf7c06-fce1-4b85-b496-1825e22ecccf/184011.jpg**Which coordinate point is the solution?** |
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| --- | --- |
| **A.** | (0, –7) |

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| **B.** | (1, 8) |

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| **C.** | (7, 0) |

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| **D.** | (8, 1) |

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| **7.** | **A linear system of equations is graphed below.**/files/assess_files/7ce125b4-99c1-42a9-b3c7-ff00d27e2dfd/8c58b25d-7efe-42c9-9948-90f362eb730e.png/files/assess_files/d7cf7c06-fce1-4b85-b496-1825e22ecccf/184008.jpg**Which ordered pair is the solution to the system?** |
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| --- | --- |
| **A.** | (0, 0) |

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| **B.** | (0, 5) |

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| **C.** | (2, 6) |

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| **D.** | (6, 2) |

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| **8.** | **A pair of linear equations is graphed below.**/files/assess_files/22824761-41a0-48ce-9128-7607b549fbb6/0abc1f8f-1de0-4789-818d-b911c6249c26.png/files/assess_files/d7cf7c06-fce1-4b85-b496-1825e22ecccf/184009.jpg**Which values for *x* and *y* would satisfy both of these equations?** |
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| --- | --- |
| **A.** | *x* = 0, *y* = 3 |

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| **B.** | *x* = 3, *y* = 4 |

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| **C.** | *x* = 4, *y* = 3 |

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| **D.** | *x* = 3, *y* = 7 |

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| **9.** | **A system of linear equations is graphed below.**/files/assess_files/d7cf7c06-fce1-4b85-b496-1825e22ecccf/184165.jpg**Which coordinate point represents the solution?** |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | (0, 4) |

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|  |  |
| --- | --- |
| **B.** | (4, 0) |

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| --- | --- |
| **C.** | (0, – 4) |

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| **D.** | (4, – 4) |

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| **10.** | **The graphs** /files/assess_files/f19ed105-3666-421b-bb64-da1da1411dd3/94a928fd-e44e-4498-a5c5-47aab555707f.png **and *y* = –2 are shown in the coordinate plane below.**/files/assess_files/d7cf7c06-fce1-4b85-b496-1825e22ecccf/184012.jpg**Which coordinate point satisfies both equations?** |
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|   |

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| --- | --- |
| **A.** | (–5, –2) |

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| **B.** | (–2, –5) |

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| **C.** | (–2, –2) |

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| **D.** | (0, –2) |

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| **11.** | **In the graph shown, which of the following values represents the *x*-value where line *l* and the line** /files/assess_files/8f1ec709-a88a-44d3-8993-dba79a80b771/47e933bb-68b3-4e20-8fec-39e36caa9092.png **intersect?**/files/assess_files/73182fa0-6103-4066-a14c-6c0e73848226/153645.jpg |
|  |
|   |

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| --- | --- |
| **A.** | /files/assess_files/7cd825cb-72d1-4326-a278-2d0f060d13df/954f9a52-38c7-4481-94bd-e9e62be2e953.png |

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| --- | --- |
| **B.** | 0 |

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| --- | --- |
| **C.** | 1 |

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| **D.** | 2 |

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| **12.** | Darren graphed the system of linear equations shown and determined that there is no possible solution. /files/assess_files/83efd69f-bcd1-4b4d-9b88-40f6ba8df1eb/image/38554d29-5e2f-4276-a26f-efc2f7e4d946.gifWhich statement is true? |
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| **A.** |   Darren is correct because the lines are parallel. |

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| **B.** |   Darren is correct because both lines have different slopes. |

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| **C.** |   Darren is incorrect because both lines have the same slope. |

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| **D.** |   Darren is incorrect because the lines intersect at a single point. |

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| **13.** | A system of linear equations is graphed on the coordinate grid shown. /files/assess_files/1c0b28c0-d89c-4d74-b707-468b325401cd/image/49656dba-84a1-4407-a01c-36efd9aa7e87.gif Which point represents the solution to the system? |
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| --- | --- |
| **A.** |   Point A |

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| **B.** |   Point B |

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| **C.** |   Point C |

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| **D.** |   Point D |

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| **14.** | At which point do the graphs of the equations below intersect? /files/assess_files/8b19d79d-81d6-4808-b58f-af7bc2203bb8/images/a195fda344f6a98be8b86a4bdaa55159.png |
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| --- | --- |
| **A.** | /files/assess_files/9e9f1745-20f2-4bd7-950b-d3ebbcd9bcdf/images/52dd6e86242da566c2a4c65f1a589119.png |

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| --- | --- |
| **B.** | /files/assess_files/43b57a06-d905-4bd9-b004-136a39ec4f14/images/44d79400276bdb6ae2b7b4b4689d8180.png |

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| --- | --- |
| **C.** | /files/assess_files/83af5e5b-e2b8-4c1c-bfbc-0f7169ddf035/images/7557617f05f857fd25bdd46e1d81441b.png |

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| **D.** | /files/assess_files/e6834307-a69f-4ad6-bbb1-09dd3dab70e8/images/79c8a67791fdaf02312d33e4783f050b.png |

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| **15.** | What appears to be the solution to the system of equations shown in the graph below? /files/assess_files/af65f637-e7c4-4147-ba17-c5d473863cc9/images/4331379d-e140-4e68-bad1-0972f75eb110_a462990.gif |
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| --- | --- |
| **A.** | /files/assess_files/c6255910-6195-433e-886c-f03f73deecd7/images/d02951f7136d84af73c77e217fda555c.png |

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| **B.** | /files/assess_files/f5638482-27cd-4a9d-a6b9-bd58a8a33101/images/6eb91bbf3883548b61a739870de3bcaf.png |

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| --- | --- |
| **C.** | /files/assess_files/b3fb99b1-026e-4fa4-b922-54a1a9f64236/images/44d79400276bdb6ae2b7b4b4689d8180_1.png |

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| --- | --- |
| **D.** | /files/assess_files/ae0d82f7-2230-4288-ae7a-83502a0fb953/images/b172c273145d97277efac62d80425ad6.png |

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| **16.** | At which point do the graphs of the equations shown below intersect? /files/assess_files/744e9eb2-7236-4dd8-9db8-7b6d3e62fc1d/images/50021fa8539617c7ceb104fc7c62e9bd.png  |
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| --- | --- |
| **A.** | /files/assess_files/828c234d-5658-47c2-b941-13e1a80fc70a/images/8d0228ebcffd975888fcc1ccd8a39460.png |

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| **B.** | /files/assess_files/77236dab-a717-4f1b-946b-71ed73c8c4a7/images/490ea9f381a8f8db0c456afc9c486931.png |

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| --- | --- |
| **C.** | /files/assess_files/dec597de-3f02-4e35-ab71-47d6ee635e88/images/e84be9cbba2b015d8108c79fc00e0463.png |

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| **D.** | /files/assess_files/d3e85fd7-74d2-48a8-b7d4-3164b9752c5b/images/78f1683c7f6185f319c47eeed1942575.png |

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| **17.** | What is the solution to the system of equations shown in the graph below? /files/assess_files/ba2d70b1-5311-4d5f-8fa0-9d9f6a63d2d0/images/25820701-b772-433d-8c51-1cba6bd67f68_a463853.gif |
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| --- | --- |
| **A.** | /files/assess_files/60debcf0-6d0c-4584-a96c-87a9818f0b9b/images/517eaac549c197116608b571bb31cd0a.png |

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| --- | --- |
| **B.** | /files/assess_files/ce40d848-912e-451c-867b-27a742065ccd/images/832eecc651db0a7598a5fbff538e2281.png |

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|  |  |
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| --- | --- |
| **C.** | /files/assess_files/71a62903-c788-4fde-89bf-5d04d7cc628e/images/7e4ff376b27e8861171a781f2d4b0358.png |

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| --- | --- |
| **D.** | /files/assess_files/e6953fa9-f3fc-4ba2-9647-a4ca3fda5118/images/5ae7325d383235a59ae34f4333823809.png |

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| **18.** | At which point would the graphs of the equations below intersect? /files/assess_files/9b25961d-f07b-4d72-b4e3-20b824319f09/images/ef506b958651727adbee7a1bded6a35e.png |
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| --- | --- |
| **A.** | /files/assess_files/23503c4f-2ec4-4d05-8ade-c3c7d6c657cd/images/244b7f03f4ae2dcad233be7b731bc176.png |

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| --- | --- |
| **B.** | /files/assess_files/40257904-fdba-4871-a234-7ad7efb7376f/images/1ae01ca712b3a54ac6cb74407dfd0cbf.png |

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|  |  |
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| --- | --- |
| **C.** | /files/assess_files/ff648905-3391-4d61-b28e-56e67614089a/images/bc7bbdd24ccc823552c9c78809a6a856.png |

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|  |  |
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| --- | --- |
| **D.** | /files/assess_files/b7b65c4c-2902-47be-8489-b3174d7d0162/images/d7ac16004718b999a8f81aba38440148.png |

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| **19.** | Doris and Miguel are saving money weekly but at different rates. Doris and Miguel both write and graph equations to represent their savings. In both equations *y* represents the amount in savings account after *x* number of weeks. When the equations are graphed, the lines intersect at the point /files/assess_files/bc821275-6aba-4e40-8776-ff658b41920c/images/622ecf880ad95ce313b10e521470ee4e.png Which statement **best** explains the point of intersection? |
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|   |

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| --- | --- |
| **A.** | Miguel will have $114 more than Doris after 6 weeks. |

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| --- | --- |
| **B.** | Doris will have $114 more than Miguel after 6 weeks. |

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| --- | --- |
| **C.** | Doris and Miguel will have the same amount after 6 weeks. |

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| --- | --- |
| **D.** | Doris and Miguel will have the same amount after 114 weeks. |

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| --- | --- |
| **20.** | Which ordered pair is the solution of the linear system graphed below? /files/assess_files/eb9b973b-c3ce-427e-a6d2-df48899c959f/images/532aa164-1a99-464a-9f10-6d57921120b3_a371908.gif |
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| --- | --- |
| **A.** | /files/assess_files/553a0773-8b78-461d-8a9f-3f5969af0d05/images/eea2f27a77a7818decda2528ea0c8453.png |

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| --- | --- |
| **B.** | /files/assess_files/58f703e7-b156-4adf-8c94-9ecdfbe1e5e4/images/35892bc05c4698d635b04d216db1f7eb.png |

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| --- | --- |
| **C.** | /files/assess_files/6450e832-11d8-4a68-8465-2dc11f57de26/images/ec561868793cdbc322077b09c584f138.png |

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| --- | --- |
| **D.** | /files/assess_files/bf31c43e-9d51-4ed3-82d8-c5f87ffffa23/images/495569e14abe0126416724a91377477c.png |

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|  |  |
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| **21.** | At what point do the graphs of the lines /files/assess_files/f926e3b3-830e-40f2-bf96-4561b2059ec0/images/063fa5fa3e72b6c266712f37e289f4a8.png intersect? |
|  |
|   |

|  |  |
| --- | --- |
| **A.** | /files/assess_files/f6762569-06b7-40ae-98c3-08538285c037/images/2ab6f88962b2467d5ef7790c079e0948.png |

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| --- | --- |
| **B.** | /files/assess_files/a169ef1b-702e-4483-9a49-23ace631d9d8/images/b01bb09c1bce1c665d18f26d21980bb8.png |

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| --- | --- |
| **C.** | /files/assess_files/a27a10a2-a12c-474a-ae75-761ba2d53909/images/60fe9fd1c8c62ee34ef5285bf05da354.png |

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| --- | --- |
| **D.** | /files/assess_files/d5650751-56c8-49fb-aed0-bbb3d5c4be68/images/72fbdb57b0aca02ab931194475902eaf.png |

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| **22.** | Danisha represented a system of linear equations with the graph below./files/assess_files/77d1b8c5-b20d-41f2-96f8-d9580b4cfffb/images/5b150ea3-488a-4ee2-995a-8e74c4234aee_MAMAT080810251_1a.gifWhat is the solution to the system of equations? |
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| **A.** | /files/assess_files/1b826ae4-b88c-426a-891f-c8818fcc61b7/images/36e5386ff65278cdab606620cee8ca2f.png |

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| **B.** | /files/assess_files/cc2d0a0a-c0ee-44e3-8a86-37e5e661cd89/images/4aa5677c58947a7ec7f69d534bd69b49.png |

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| **C.** | /files/assess_files/dc436340-40b9-4161-869d-5467dbb265c2/images/5216ae1d5e1f8baa5dae2430a32f7af2.png |

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| **D.** | /files/assess_files/e9a2dc08-201f-4ed4-ab1e-29ef8f75f9e9/images/bec080e7397251cf14b0c980bea4f88c.png |

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