Equation of a line from its graph worksheet – Grade 7

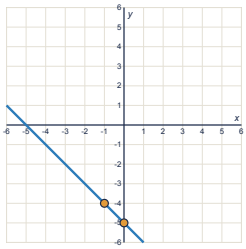
Grade 7 · Mixed level · 20 questions · **Version X7684**

Name: _____ Date: _____ Score: ___ / 20

Scan to check answers + earn stars

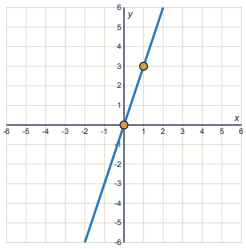
Done the worksheet? Scan the code (or enter version X7684 on this skill's page at themathmeridian.com) to check your answers online and earn stars.

1. What is the y-intercept of the line on the graph?



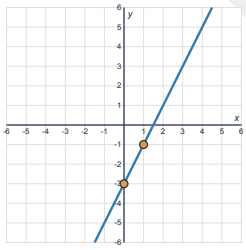
Answer: _____

2. Find the y-intercept of the line on the graph.



Answer: _____

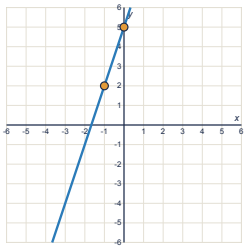
3. Which equation matches the line on the graph?



A. $y = 2x + 3$ **B.** $y = \frac{1}{2}x - 3$ **C.** $y = -2x - 3$ **D.** $y = 2x - 3$

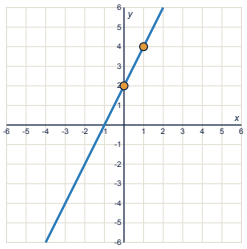
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4. Work out the slope of the line on the graph.



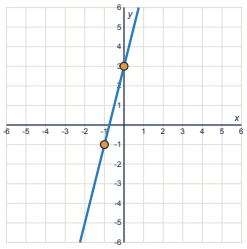
Answer: _____

5. What is the slope of the line on the graph?



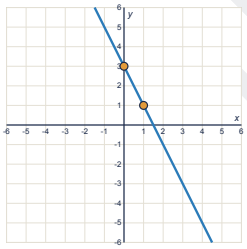
Answer: _____

6. Work out the y-intercept of the line on the graph.



Answer: _____

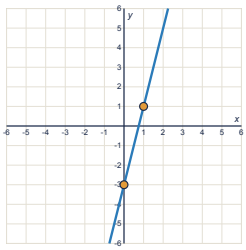
7. Find the slope of the line on the graph.



Answer: _____

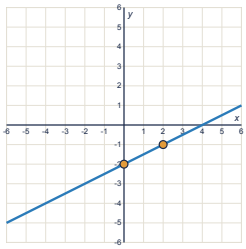
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8. Find the slope of the line on the graph.



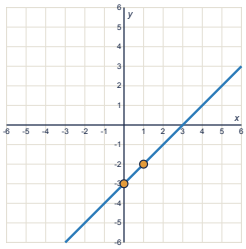
Answer: _____

9. Find the slope of the line on the graph. (a fraction like 2/3 is fine)



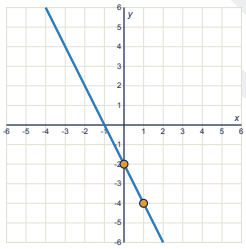
Answer: _____

10. Work out the slope of the line on the graph.



Answer: _____

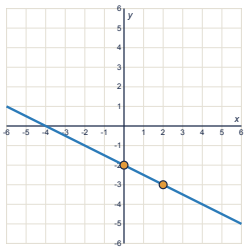
11. Which equation matches the line on the graph?



A. $y = 2x - 2$ **B.** $y = -2x - 2$ **C.** $y = -2x + 2$ **D.** $y = -\frac{1}{2}x - 2$

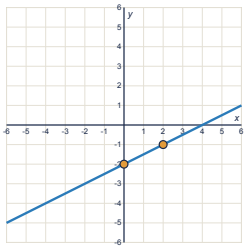
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12. Work out the y-intercept of the line on the graph.



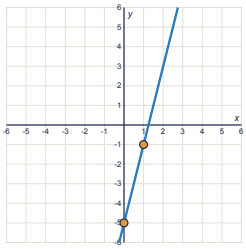
Answer: _____

13. What is the y-intercept of the line on the graph?



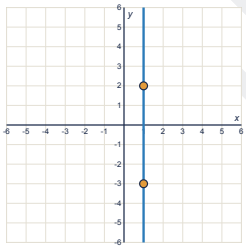
Answer: _____

14. Find the y-intercept of the line on the graph.



Answer: _____

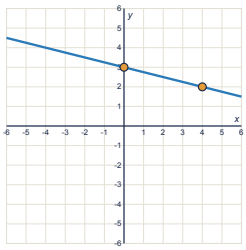
15. Which equation matches the line on the graph?



A. $y = 1$ **B.** $y = x$ **C.** $x = -1$ **D.** $x = 1$

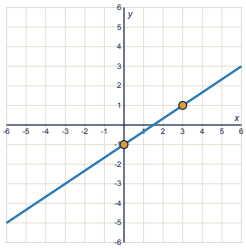
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16. Work out the slope of the line on the graph. (a fraction like 2/3 is fine)



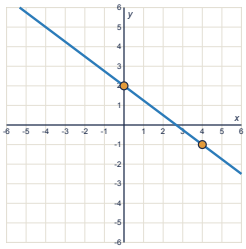
Answer: _____

17. Which equation matches the line on the graph?



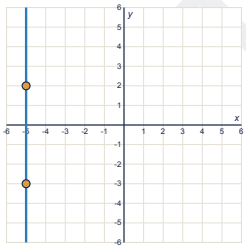
A. $y = \frac{2}{3}x - 1$ **B.** $y = -\frac{2}{3}x - 1$ **C.** $y = \frac{2}{3}x + 1$ **D.** $y = \frac{3}{2}x - 1$

18. Which equation matches the line on the graph?



A. $y = -\frac{4}{3}x + 2$ **B.** $y = -\frac{3}{4}x + 2$ **C.** $y = -\frac{3}{4}x - 2$ **D.** $y = \frac{3}{4}x + 2$

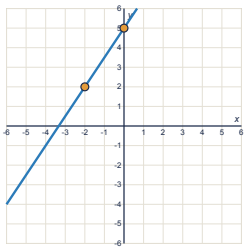
19. Which equation matches the line on the graph?



A. $x = 5$ **B.** $y = -5x$ **C.** $y = -5$ **D.** $x = -5$

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20. Which equation matches the line on the graph?



A. $y = \frac{3}{2}x - 5$ **B.** $y = \frac{3}{2}x + 5$ **C.** $y = -\frac{3}{2}x + 5$ **D.** $y = \frac{2}{3}x + 5$

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Answer key · Version X7684

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1. **-5**
2. **0**
3. **D (**$y = 2x - 3$**)**
4. **3**
5. **2**
6. **3**
7. **-2**
8. **4**
9. **1/2**
10. **1**
11. **B (**$y = -2x - 2$**)**
12. **-2**
13. **-2**
14. **-5**
15. **D (**$x = 1$**)**
16. **-1/4**
17. **A (**$y = \frac{2}{3}x - 1$**)**
18. **B (**$y = -\frac{3}{4}x + 2$**)**
19. **D (**$x = -5$**)**
20. **B (**$y = \frac{3}{2}x + 5$**)**

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