



Graphing linear equations





1.The lines f and g are graphed BELOW in the xyplane. Line g can be written as the equation y=ax+b, where a and b are constants. Which of the following equations represents line f? Please choose from one of the following options.

A. y=ax-b B. y=-ax+b C. -y=ax+b D. x=ay+b





2.Which of the following graphs represents the equation $(y+6) = -\frac{3}{2} (x-8)$





3.The equation 6y+12x=18 is graphed in the xyplane. Which of the following equations has a graph that is perpendicular to the graph of the above equation? A. y=-2x+3B. $y=\frac{1}{2}x+3$ C. y=2x+3D. $y=-\frac{1}{2}x+3$



4.Which of the following equations represents a line in the xy-plane with an x-intercept at (-2, 0) and a slope of 4? A. y=4x+8B. y=-4x+8C. y=4x-2D. y=-4x-2



5.The equation $y=\frac{3}{2}(x-8)$ is graphed in the xyplane. Which of the following equations will have a graph that is parallel to the graph of the above equation and have an x-intercept on the negative x-axis?

A.
$$y = \frac{3}{2}(x+8)$$

B. $y = \frac{3}{2}x-8$
C. $y = -\frac{2}{3}(x+8)$
D. $y = -\frac{2}{3}x-8$



6.A line is graphed as shown BELOW. Which of — the following equations represents the line?

A. y=25x+2 B. y=25x-2 C. y=-25x+2 D. y=-25x-2





7.Which of the following equations represents the line graphed BELOW in the xy-plane?

A. x=-4 B. y=-4 C. y=x-4 D. x=y-4





8.Two lines graphed in the xy-plane have the equations 2x+5y=20 and y=kx-3, where k is a constant. For what value of k will the two lines be perpendicular?

A. $-\frac{2}{5}$ B. $\frac{2}{5}$ C. $\frac{5}{2}$ D. $-\frac{5}{2}$

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9.A rectangle is said to have a golden ratio if the ratio of its length to width is equal to approximately 1.6. Which of the following graphs represents the relationship between length, I, and width, w, in a golden rectangle?





10. Which of the following represents the graph of the equation 3y - 7 = 0?





11. Which of the following represents the graph of the equation $x = -\frac{1}{3}y$?





y y4 4-3-3-2-2-1. x 1 -4 - 3 - 2 $\cdot x$ 2 3 -4 - 3 - 2-2 -3 3 y y4-3-3 2-++++ \leftarrow 1 2 3 4 -4 - 3 - 22 3 4 倒卖必然断更 一手资源加微信: tt19222222

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12. The line represented by the equation $y = \frac{1}{12} - x$ is graphed in the xy-plane. Which of the following statements correctly describes the graph of the line? A. The line is perpendicular to the graph x + y =1 B. The line has a negative slope and a positive yintercept. C. The line has a positive slope and a negative yintercept.

- D. The x-intercept is equal to the negative of the
- y-intercept

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13. If k is a rational constant not equal to 1, which of the following graphs represents the equation y+5=k(x+y)+5?





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14.What is the equation of the line graphed in the xy-plane that passes through the point (-4,-5) and is parallel to the line whose equation is 3x-4y=-8? A. $y = -\frac{4}{3}x + 10$ B. $y = \frac{3}{4}x - 2$ C. $y = \frac{3}{4}x - 8$ D. $y = -\frac{4}{3}x - 8$



15.The equations below are graphed in the xyplane. Which equation's graph will have a slope of $\frac{7}{8}$ and a y-intercept of 3? A. 7x+8y=24 B. 7x-8y=-24 C. 8x+7y=3 D. 7x-8y=3







