

Algebra I

Writing Equations of Lines Review

Name _____

1. What is slope-intercept form?
2. What are the two pieces of information you must have in order to write the equation of a line?

Find the equation of the line for each problem by using the given information.

3. $m = -8, b = 7.5$

4. $m = 3, (-1, 4)$

5. $m = \frac{3}{4}, (0, 5)$

6. $(2, 4)$ and $(8, 2)$

7. $(-10, 0)$ and $(2, 3)$

8. $m = -\frac{5}{8}, b = -20$

9. slope is 1, y-intercept is $\frac{1}{2}$

10. $m = \frac{3}{2}, (12, 5)$

11. $(7, 4)$ and $(-3, -2)$

12. $m = -6, (5, -1)$

13. $b = -11, m = \frac{7}{9}$

14. $(-1, 4)$ and $(5, -8)$

15. Joe is trying to save money to purchase a new stereo. He opens a new savings account with \$150. Every week he deposits \$50 after he receives his paycheck from work. Write an equation that relates the amount of money S he has in the savings account after w weeks.

How long will it take Joe to save the \$900 dollars he needs to buy the stereo?

Find the equation for each of the following graphs.

16. _____

17. _____

18. _____

