

Unit 3 Review

Write the equation in slope-intercept form.

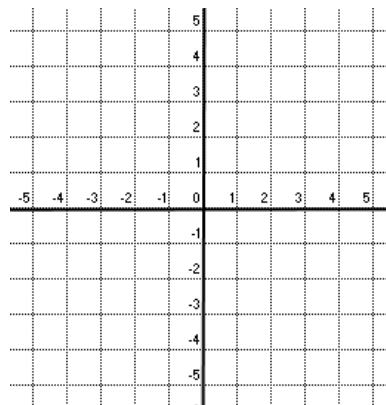
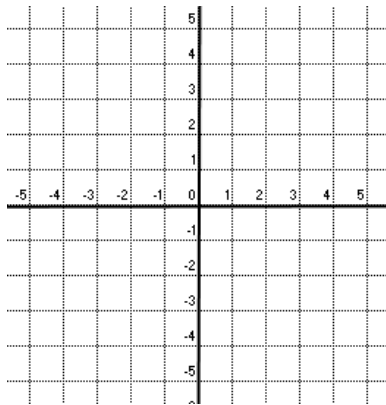
1. $2x + 5y = 10$

2. $5x - 12y = 36$

Graph the equation of the line on the line using the slope, intercept method.

3. $-8x + 4y = -4$

4. $3x + 3y = 9$



5. What is the slope of a horizontal line? _____

6. What is the slope of a vertical line? _____

7. Find the slope of the line passing through the points $(-4, -5)$ and $(-9, 1)$. Use the formula to find the slope and you must show your work. _____

8. Find the slope of the line passing through the points $(8, 3)$ and $(-4, 3)$. Use the formula to find the slope and you must show your work. _____

9. Find the slope and y-intercept of the line $y = 2x - 6$. $m =$ _____ $y\text{-int} =$ _____

10. Find the slope and y-intercept of the line $-6x + 3y = 12$. $m =$ _____ $y\text{-int} =$ _____

11. Find the x-intercept and y-intercept of the line $-5x + 2y = -10$.

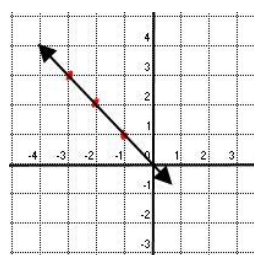
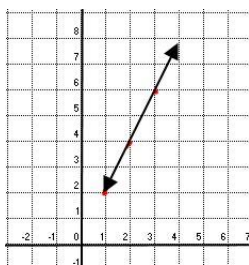
x-int: _____ y-int: _____ remember to write as a point.

12. Write the equation of the line that goes through $(5, -1)$ & $(-5, 5)$.

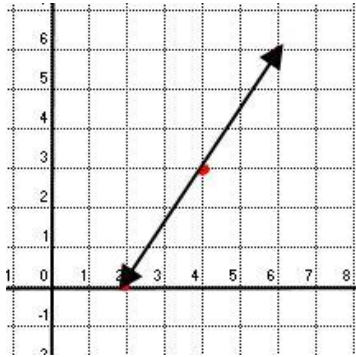
13. Find the slope and y-intercept of the line $-4x - y = 12$. $m =$ _____ $y\text{-int} =$ _____

14. Find the slope.

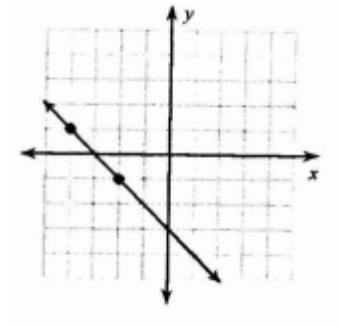
15. Find the y-intercept



16. Write the equation of the line.



17. Find the x and y-intercept.



18. Find the x-intercept and y-intercept of the line $2y = 10 - 4x$.

x-int: _____ y-int: _____ remember to write as a point.

Solve the equation

19. $6a - 2a - 3 = 9$

20. $5(x - 2) = 2x + 2$

21. Simplify the expression: $4(2 + m) + 5$

22. Write the equation of the line in slope-intercept using $(5, 3)$ and $(0, 7)$.

23. Solve the equation for t: $I = Prt$.

24. Evaluate the expressing for the given values. $4y + z - 2$; $y = 2$ and $z = 4$.

You must highlight all numbers and 2-3 words that indicate what you are asked to find in the following problems.

25. The library is selling stickers to raise money to buy new books. If the library makes a profit of \$8 for selling 14 stickers and \$16 for selling 18 stickers, what is the price of each sticker?

26. Taylor is a plumber who made \$275 for 2 hours work at one house and \$500 for 5 hours work at another house. What is Taylor's hourly rate?

27. Jim rented a car and drove 230 miles on his vacation with a cost of \$122.50. Todd rented a car and drove 400 miles on his vacation with a cost of \$165. What is the mileage rate at this rental car company?

28. If a parking garage charges \$4.50 to park for 5 hours and \$2.50 to park for 1 hour, what is the hourly rate the garage charges?