

6.1-4 RWS

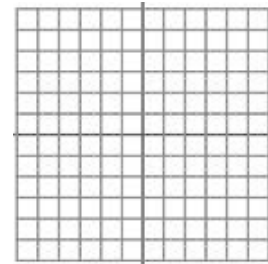
Graph Pro: _____

#1-3, Find the slope of each.

1. $(-3, -5)$ and $(-5, -10)$

2. $(1, -8)$ and $(1,9)$

3.



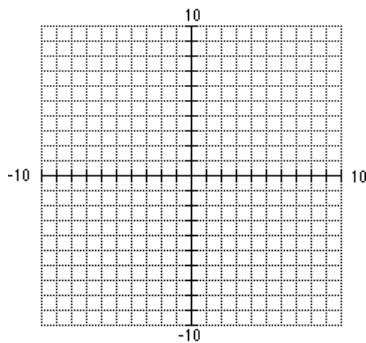
4. Describe what the *slope* of a line is:

5. The slope of the line through $(4,2)$ and $(x, -1)$ is 3. Solve for x .

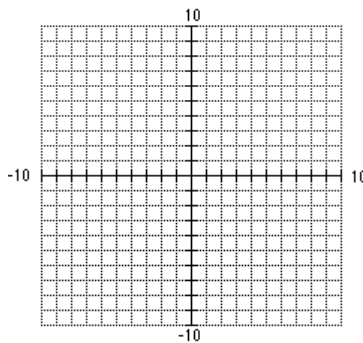
6. Put this equation into slope-intercept format: $5x - 2y = 10$

#7-12, Graph each linear equation using $y = mx+b$.

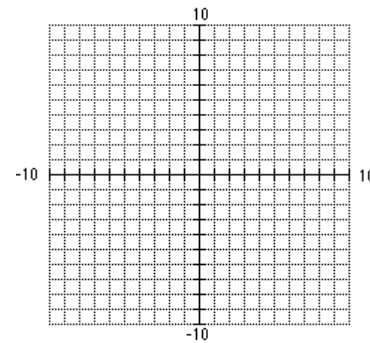
7. $y = 3x - 1$



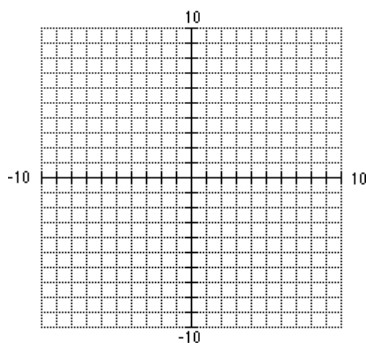
8. $y = -\frac{2}{3}x + 5$



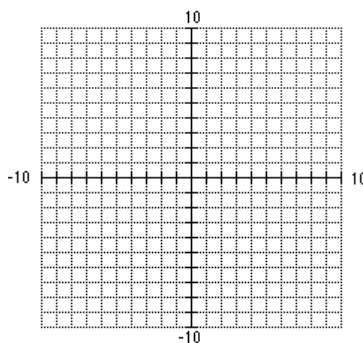
9. $y = x - 5$



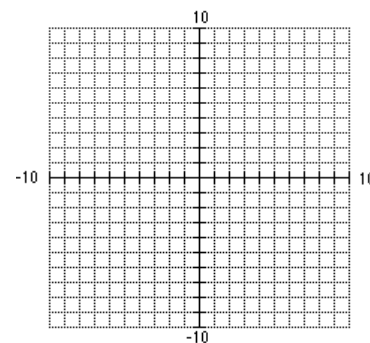
10. $y = -4$



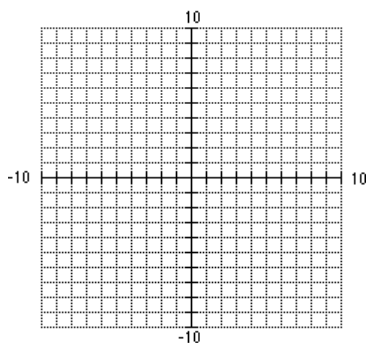
11. $-3x + y = 0$



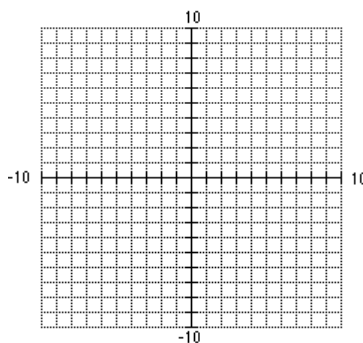
12. $x = 5$



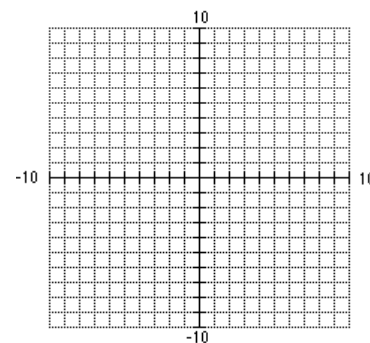
13. $2x + 3y = 7$



14. $4x - 2y = 6$



15. $15 = 3y - x$



- 16.** The Knapp family is taking a vacation. They expect to pay \$150 for someone to watch their pets while they are gone. They also expect to pay \$100 per day for a hotel room and \$80 per day food.
- Write a simplified equation that represents this situation.
 - What is the slope of your equation?
 - What is the y-intercept?
- 17.** In 2000, Vancouver, Washington had a population of 143,650 and was steadily growing 9700 per year.
- Write an equation relating y , the population of Vancouver, to x , *the number of years since 2000*.
 - Predict the population of Vancouver in 2015.
 - Predict the year the population will exceed 400,000.