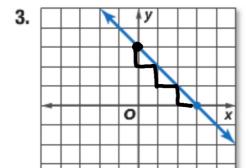
Algebra 1 Ch. 3 Review

Quiz 3.5-3.6

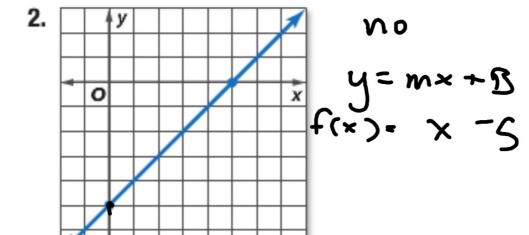
Ch. 3 (test is Tues.) Whiteboards



Proportional? no Write the equation Function notation

$$y = mx + B$$

 $y = -1x + 3$
 $y = -x + 3$
 $x + 3$



Find the slope of the line that passes through each pair of points.

29. (0, 5), (6, 2)

-3-1

30. (-6, 4), (-6, -2)

6 = hudy

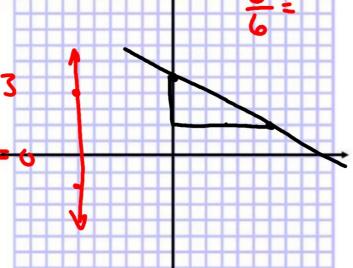
2.3=6

1

6=

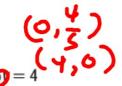
0-3=0

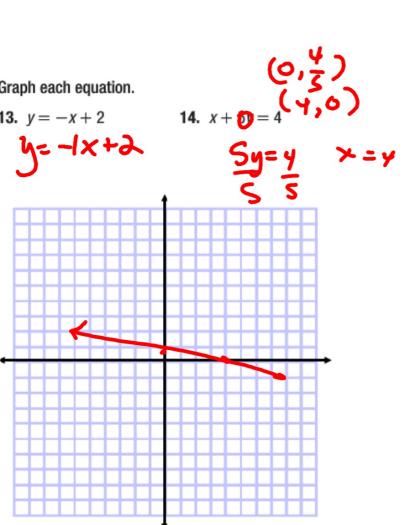
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Graph each equation.

13.
$$y = -x + 2$$

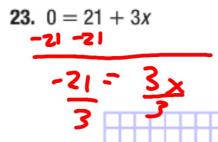


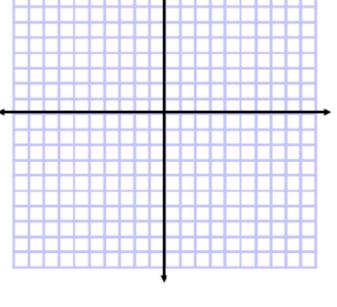


Solve each equation by graphing.

22.
$$0 = 16 - 8x$$

Where does it cross the x-axis?





Find the zero (solve)

24.
$$-4x - 28 = 0$$

25.
$$25x - 225 = 0$$

26. FUNDRAISING Sean's class is selling boxes of popcorn to raise money for a class trip. Sean's class paid \$85 for the popcorn, and they are selling each box for \$1. The function y = x - 85 represents their profit y for each box of popcorn sold x. Find the zero and describe what it means in this situation.

Suppose varies direc

Suppose y varies directly as x. Write a direct variation equation that relates x and y. Then solve.

35. If
$$y = 15$$
 when $x = 2$, find y when $x = 8$.



 Write a direct variation equation relating your earnings to the number of hours worked.

b. How much would you earn for working 35 hours? $y = 6.35 \times 127 = k \cdot 26$

Example 5

Find the next three terms of the arithmetic sequence 10. 23. 36. 49.

$$a_n = a_1 + (n-1)d$$

 $a_n = 10 + (n-1)13$

Write an equation for the *n*th term of each arithmetic sequence.

41.
$$a_1 = 6, d = 5$$

42. 28, 25, 22, 19, ...