Algebra 1 Ch. 3 Review

Review Ch. 3 (test is Wed.) Quiz today

Whiteboards

Graph each equation.

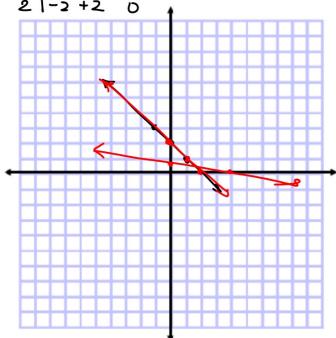
13.
$$y = -x + 2$$

14.
$$x + 60 = 4$$

1.
$$x + 60 = 4$$

 $x + 0 = 4$

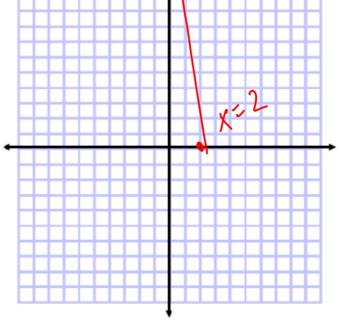




Solve each equation by graphing. **22.** 0 = 16 - 8x **23.** 0

23.
$$0 = 21 + 3x$$

Where does it cross the x-axis?



24.
$$-4x - 28 = 0$$
 25. $25x - 225 = 0$ Find the zero (solve)

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.

31. PHOTOS The average cost of online photos decreased from \$0.50 per print to \$0.15 per print between 2002 and 2009. Find the average rate of change in the cost. Explain what it means. 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.

- 38. JOBS Suppose you earn \$127 for working 20 hours.
 - a. Write a direct variation equation relating your earnings to the number of hours worked.
 - b. How much would you earn for working 35 hours?

Example 5

Find the next three terms of the arithmetic sequence $\underline{10}$. 23. 36. 49. .62, 75

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

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

Write an equation for the *n*th term of each arithmetic sequence. (6, 11, 16, 21, 26...

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

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

