Algebra 1 Ch. 3 Review

Review Ch. 3 (test is Wed.)

Whiteboards

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.

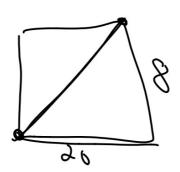
$$\frac{-4x-28=0}{-4x=28+28}$$

$$\frac{-4x=28=0}{-4}$$

$$\frac{-4x=28}{-4}$$

25x = 225 X=9

y = x - 85 D = x - 85 +85 * 85 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.



y=KX

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 $x = 8$.

$$\frac{15 = K \cdot 2}{2}$$
 $y = 7.5 \times 2$
 $= 7.5 = 160$

- 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. y-Kx
 - b. How much would you earn for working 35 hours?

$$y = 6.35 \times y = 6.35(35)$$
 6.35 = k

$$a_n = 28 + (n-1)(-5)$$

