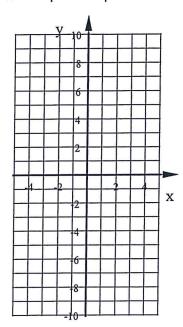
Tuesday, November 24, 2015 Algebra 2 Bellwork

1. Graph this quadratic using at least five points: y = (x+2)(x-4)



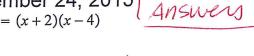
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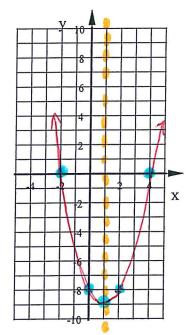
2.
$$12x^2 + 30x = 72$$

3.
$$2(x+5)^2+4=44$$

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1. Graph this quadratic using at least five points: y = (x+2)(x-4)Algebra 2





X-INT =
$$-2,4$$

LOS: $X = -\frac{2+4}{2} = 1$
Vertex = $(1, -9)$
 $(1+2)(1-4)$
 $= (3)(-3) = -9$

$$Y-inT = (0+2)(0-4)$$

= $(2)(-4) = -8$

Find the each solution to each equation by factoring or using square roots.

2.
$$12x^2 + 30x = 72$$

$$12x^{2}+30x-72=0 \qquad \chi = \frac{3}{2},-4$$

$$6(2x^{2}+5x-12)=0 \qquad \chi = \frac{3}{2},-4$$

$$6(2x^2+5x-12)=0 (x=72)$$

$$6(2x-3)(x+4)=0$$

square roots. See Next 3.
$$2(x+5)^2 + 4 = 44$$

 $-4 - 4$
 $2(x+5)^2 = 40$

$$X = -5 \pm 2.15$$

$$\frac{2(x+5)^2 = 40}{2}$$

$$\sqrt{(x+5)^2 = 20} \Rightarrow \sqrt{15}$$

$$x+5 = \pm 2.15$$