Bellwork Alg 2A Wednesday, March 1, 2017

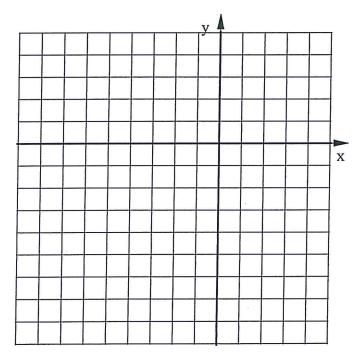
1. Use this quadratic in Factored Form: y = (x+7)(x-3)

$$y = (x+7)(x-3)$$

a. Find the x-intercepts

c. Find the coordinates of the Vertex.

- d. Find the y-intercept.
- 2. Graph this quadratic with at least 5 points. y = (x-1)(x+5)



Factor each completely.

3. 
$$48a^4 + 84a^2$$

4. 
$$24c^3 + 42c^2 - 90c$$

5. 
$$54cw^7 - 294c^3w$$

## Bellwork

## Alg 2A Wednesday, March 1, 2017 / Answers

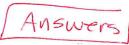
- 1. Use this quadratic in Factored Form:
  - y = (x+7)(x-3)

a. Find the x-intercepts

c. Find the coordinates of the Vertex.

$$(-2, -25)$$

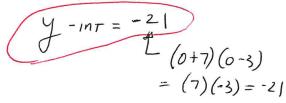
$$= (5)(-5) = -25$$



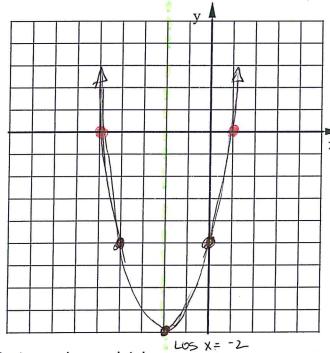
Los:  $X = \frac{-7+3}{2} = \frac{-4}{2}$ 

b. Find the equation for the LOS.

d. Find the y-intercept.



2. Graph this quadratic with at least 5 points. y = (x-1)(x+5)



X-195= 1,-5

Los 
$$X = \frac{-5+1}{2} = \frac{-4}{2} = -2$$

Factor each completely.

3. 
$$48a^4 + 84a^2$$

4.  $24c^3 + 42c^2 - 90c$ 

$$= 6c \left( 4c^{2} + 7c - 15 \right)$$

$$= 6c \left( c + 3 \right) \left( 4c - 5 \right)$$

$$-60 \right) \qquad c + 3$$

$$12 \left( -5 \right) \qquad 4c \quad 4c^{2} \quad 12c$$

$$+7 \qquad -5 \quad -5c \quad -15$$

5.  $54cw^7 - 294c^3w$