Any questions from last day's homework?? p. 281 #1ab, 2ab, 3ab, 4, 5ab, 6

Please submit the homework below:

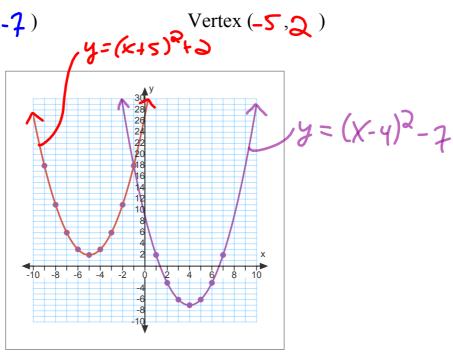
	Thurs. Nov. 9	C2D5 Factor Practice	Worksheet #1-28
--	---------------	----------------------	-----------------

Warm-up: State the vertex, then graph.

a)
$$y = (x-4)^2 - 7$$

b)
$$y = (x+5)^2 + 2$$

Vertex (4, -1)



Cycle 3 Day 1

MBF 3CI CHAPTERS 4, 5, 7: RELATIONS

Date: **NOV 14/17**

LEARNING TARGET:

6

"I can graph a quadratic relation given in standard form by: factoring, then finding the zeros, the equation of the axis of symmetry, and then finally the vertex for the parabola".

Graphing Quadratics from Standard Form

Ex.1 Given
$$y = x^2 + 10x + 16$$
.

 $y = x^2 + 10x + 16$

a) Convert the equation from standard form to intercept form (by factoring).

$$=(x+3)(x+8)$$

 $A=x_3+10x+16$

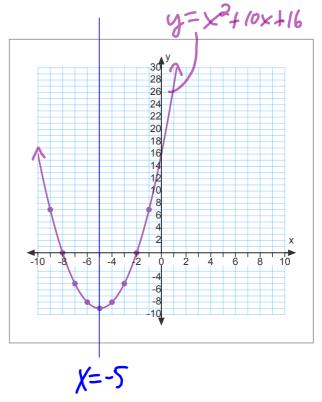
b) Find the zeros (x-intercepts).

A-B=0
$$y = (x+a)(x+8)$$
 $A = 0$
 $A =$

c) Determine the equation of the axis of symmetry.

$$AGS: \chi = \frac{-3+(-8)}{2}$$

= $\frac{-10}{2}$



d) Determine the coordinates of the vertex (using substitution).

$$= (-3)(3)$$

$$= (-3)(3)$$

$$= (-3)(3)$$

$$= (x+3)(x+8)$$

e) Graph the parabola (using the vertex and the step pattern).

Cycle 3 Day 1

MBF 3CI CHAPTERS 4, 5, 7: RELATIONS

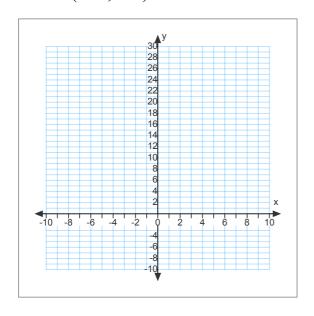
Today's Entertainment: PRACTICE

1. Given each equation in standard form, (use the 5 steps on the preceding page to) determine the coordinates of the vertex, then graph each.

(a)
$$y = x^2 + 4x - 5$$

$$y = x^2 - 4x + 4$$

Vertex (,)



Vertex (,)

