

SM3-A HW #2-5 (Intercept Form)

Date_____ Period____

For problems 1-8:

- a) Convert the equation to intercept form by factoring.
- b) What are the x-intercepts?
- c) Find the vertex using the method I taught in the notes.
- d) Write the vertex form equation.

1) $y = x^2 - 6x + 8$

2) $y = x^2 - 14x + 40$

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

4) $y = x^2 + 4x - 32$

5) $y = 2x^2 - 12x + 18$

6) $y = -3x^2 + 6x + 5$

7) $y = x^2 + 10x + 21$

8) $y = x^2 - 6x - 16$