

SM3-2 In-class #2-6 (Practice 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) $y = x^2 - 8x - 20$

2) $y = x^2 + 12x - 28$

3) $y = x^2 + 12x + 27$

4) $y = x^2 - 12x + 20$

5) $y = 3x^2 - 6x - 24$

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

7) $y = 3x^2 + 7x - 6$

- a) Convert to intercept form by factoring
- b) List the x-intercepts

8) $y = 6x^2 - 7x - 5$

- a) Convert to intercept form by factoring
- b) List the x-intercepts

9) $y = 5x^2 - 12x + 7$

- a) Convert to intercept form by factoring
- b) List the x-intercepts

10) $y = -8x^2 - 24x + 14$

- a) Convert to intercept form by factoring
- b) List the x-intercepts