

SM3 HW #2-3 (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) $y = x^2 - 6x - 16$

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

a) Convert to intercept form by factoring

b) List the x-intercepts

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

a) Convert to intercept form by factoring

b) List the x-intercepts

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

a) Convert to intercept form by factoring

b) List the x-intercepts

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

a) Convert to intercept form by factoring

b) List the x-intercepts