****

**9-7.** For each of the following equations, indicate whether its graph would be a line or a parabola.

* 1. 5*x* + 2*y* = 7
	2. *y =*3*x*2
	3. *y* = 3
	4. 4*x*2 + 3*x* = 7 + *y*

**9-8.** **Multiple Choice:**Which equations below are equivalent to:



* 1. 3*x*  − 7 + 5*x* = 10 − 3*x*
	2. 3*x* − 14 + 5*x* = 2 − 3*x* + 8
	3. 8*x* − 14 = 10 − 3*x*
	4. 6*x* − 14 + 10*x* = 4 − 6*x* + 16

**9-10.** Examine the two equations below.  Where do they intersect?

* *y* = 4*x* − 3
* *y* = 9*x* − 13

**9-17.** Solve the following quadratic equations by factoring and using the Zero Product Property. Be sure to check your solutions.

* 1. *x*2 − 13*x* + 42 = 0
	2. 0 = 3*x*2 + 10*x* − 8
	3. 2*x*2 − 10*x* = 0
	4. 4*x*2 + 8*x* − 60 = 0

**9-18.** Use the Quadratic Formula to solve *x*2 − 13*x* + 42 = 0. Did your solution match the solution from part (a) of problem 9-17?