

**8-92.** QUALITY CONTROL, Part TwoLots O’Dough, a wealthy customer, would like to order a variety of parabolas.  However, he is feeling pressed for time and said that he will pay you *lots*of extra money if you complete his order for him.  Of course you agreed!  He sent you sketches of each parabola that he would like to receive.  Determine a possible equation for each parabola so that you can pass this information on to the Manufacturing Department.

1.     2.

   

      3. 4.



**8-93.** Find the slope and *y*-intercept of the line 6*y* − 3*x* = 24.

**8-94.**  Examine the graph of *y* = 2*x*2 + 2*x* − 1 at right.

a. Estimate the zeros *y* = 2*x*2 + 2*x* − 1 from the graph.

b. What happens if you try to use the Zero Product Property to find the roots of 2*x*2 + 2*x* − 1 = 0?

**8-95.** Solve the equations below for x. Check your solutions.

* 1. x2 + 6x − 40 = 0
	2. 2x2 + 13x − 24 = 0

**8-96.** Calculate the expressions below. Then compare your answers from parts (a) and (b) to those in part (a) of problem 8-95, and parts (c) and (d) to part (b) in problem 8-95.  What do you notice?

1. 
2. 