 **2-90.** Find the area of each figure below. Show all work. Remember to include units in your answer.

1. a square:



1. 
2. 

 **2-92.** Graph the following equations on the same set of axes. Label each line or curve with its equation. Where do the two curves intersect?

*y* = −*x* − 3
*y* = *x*2 + 2*x* − 3

 **2-93.** On graph paper, plot quadrilateral *ABCD* if *A* (2, 7), *B* (4, 8), *C* (4, 2), and *D* (2, 3).

1. What is the best name for this shape? **Justify** your conclusion.
2. Quadrilateral *A′B′C′D*′ is formed by rotating *ABCD* 90° clockwise about the origin. Name the coordinates of the vertices.
3. Find the area of *ABCD*. Show all work.

 **2-94.** What is the probability of drawing each of the following cards from a standard playing deck? Refer to problem 2-74 if you need information about a deck of cards.

1. P(face card)
2. P(card printed with an even number)
3. P(red ace)
4. P(purple card)