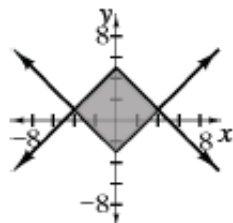**4-92.** There is no solution, so the lines are parallel.

4-93. See graph below.
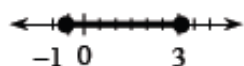

a. A square, justifications vary.

b. (0, –3), (4, 1), (–4, 1), (0, 5)

c. 32 square units

4-94. See below:

a. $x < 13$

b. $\frac{5-\sqrt{57}}{4} \le x \le \frac{5+\sqrt{57}}{4}$ or $-0.637 \le x \le 3.137$
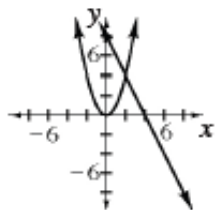

4-95. See below:

a. no real solutions

b. $y \approx 4.3$ and 10.7

4-96. $(25, -3)$

a. $x^2 + 3y = 16$ and $x^2 - 2y = 31$

b. The solutions to the new system are (5, –3) and (–5, –3).

4-97. See below:

a. See graph below; $y = -2x + 8$

b. 63.43° or 116.57°