Find the area of the following:

- 9. Triangle XYZ with vertices (-6,4), (2,6), and (4,-3).
- 10. triangle ABC with vertices A(2, 5), B(5, 8), C(3, 15)
- **11.** square DEFG with vertices D(-1, 2), E(-1, -2), F(3, -2), G(3, 2)
- **12.** rectangle *HIJK* with vertices H(-1, 1), I(1, -1), J(7, 5), K(5, 7)

Use a matrix equation to solve each system of equations.

**27.** 
$$-x + y = 4$$
  $-x + y = -4$ 

**28.** 
$$-x + y = 3$$
  $-2x + y = 6$ 

**29.** 
$$x + y = 4$$
  $-4x + y = 9$