

Solving Linear Systems by Elimination

Questions

1. Solve each system by elimination. Check solutions using “left-side / right-side”.

a)

$$x - y = 3$$

$$x + y = 7$$

b)

$$4x - 3y = -10$$

$$2x + 3y = 22$$

2. Solve each system by elimination. Check final answers on the reverse side of this page.

a)

$$-5x + 6y = -7$$

$$-5x + 2y = -19$$

b)

$$8x - 3y = -10$$

$$2x - 5y = 6$$

c)

$$-3 = 2x - 3y$$

$$2x + y = -15$$

d)

$$4x + 3y = 15$$

$$8x - 9y = 15$$

3. Complete the next three linear systems using either graphing or elimination (or both) for additional practice. Check final answers on the reverse side of this page.

a)

$$4x - 3y = 5$$

$$8x - 6y = 10$$

b)

$$3x + 2y = 16$$

$$2x + 3y = 14$$

c)

$$3x + 2y = 5$$

$$9x + 6y = 7$$

Answers

1. a) $(5,2)$ b) $(2,6)$
2. a) $(5,3)$ b) $(-2, -2)$ c) $(-6, -3)$ d) $(3,1)$
3. a) infinitely many solutions b) $(4,2)$ c) no solution