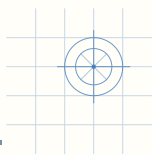


Systems of three equations — Solve

Name: _____

Date: _____



Solve each system. Eliminate one letter, then another.

① $x + y - 2z = -3$

$$-3x + y - z = 0$$

$$3x - y + 2z = 3$$

(1) $x + y - 2z = -3$

(2) $-3x + y - z = 0$

(3) $3x - y + 2z = 3$

(4) $3 \times (1) + (2): 4y - 7z = -9$

(5) $[3 \times (1) - (3)] \div 4: y - 2z = -3$

(6) $(4) - 4 \times (5): z = 3$

$$y = 3$$

$$x = 0$$

② $x + y + z = -9$

$$x + 3y + 2z = -13$$

$$x + 2y + 3z = -20$$

③ $x - y + z = 4$

$$2x - y + 2z = 12$$

$$x + 2y - 3z = -4$$

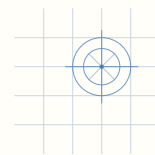
④ $x + 3y + z = -11$

$$x + y + 2z = -8$$

$$x + y + z = -5$$



Systems of three equations · Solve — Answer key



1. $x + y - 2z = -3, \dots \rightarrow x = 0, y = 3, z = 3$

2. $x + y + z = -9, \dots \rightarrow x = -4, y = 1, z = -6$

3. $x - y + z = 4, \dots \rightarrow x = 3, y = 4, z = 5$

4. $x + 3y + z = -11, \dots \rightarrow x = 1, y = -3, z = -3$