Linear Systems (A)

Solve each system of equations.

1.
$$-3c - 4u + 4y = -25$$

 $-3c + 3u + 3y = 6$
 $-4c - 3y = 13$

5.
$$-u-x+2z = -11$$

 $3u-2x+z = -18$
 $-4u+5x = 34$

2.
$$2a - 5u + 3y = -4$$

 $6a + 5u - y = 8$
 $-u - 4y = -28$

6.
$$3a-5c+5x = 43$$

 $c-5x = -24$
 $3a+4x = 19$

3.
$$6c+4v-z=-31$$

 $c+v+6z=14$
 $-v-6z=-20$

7.
$$4c + u - 3x = 4$$

 $5c + 6u + 6x = -58$
 $6c - 6u + x = 1$

4.
$$-3v - 6y - z = -3$$

 $-5v + 6y + z = 43$
 $6y - z = 18$

8.
$$3c + 5v + 4z = 6$$

 $-2c - 5v - 4z = -5$
 $-6c + 2v + 4z = 0$

Linear Systems (A) Answers

Solve each system of equations.

1.
$$-3c - 4u + 4y = -25$$

 $-3c + 3u + 3y = 6$
 $-4c - 3y = 13$
 $c = -1, u = 4, y = -3$

5.
$$-u-x+2z = -11$$

 $3u-2x+z = -18$
 $-4u+5x = 34$
 $u = -1, x = 6, z = -3$

2.
$$2a - 5u + 3y = -4$$

 $6a + 5u - y = 8$
 $-u - 4y = -28$
 $a = -1, u = 4, y = 6$

6.
$$3a-5c+5x = 43$$

 $c-5x = -24$
 $3a+4x = 19$
 $a = 1, c = -4, x = 4$

3.
$$6c+4v-z=-31$$

 $c+v+6z=14$
 $-v-6z=-20$
 $c=-6, v=2, z=3$

7.
$$4c + u - 3x = 4$$

 $5c + 6u + 6x = -58$
 $6c - 6u + x = 1$
 $c = -2, u = -3, x = -5$

4.
$$-3v - 6y - z = -3$$

 $-5v + 6y + z = 43$
 $6y - z = 18$
 $v = -5, y = 3, z = 0$

8.
$$3c + 5v + 4z = 6$$

 $-2c - 5v - 4z = -5$
 $-6c + 2v + 4z = 0$
 $c = 1, v = -1, z = 2$