Linear Systems (J)

Solve each system of equations.

1. $a + 6c + 2x = -10$
   $-2a + 2c = 0$
   $-2a = 0$

2. $6a - 4v + y = 10$
   $a - 6v = -3$
   $-2a = -6$

3. $-3a - 5b - 6u = -34$
   $3a + b = 2$
   $-2a = -2$

4. $-6v + 4x - 5y = 28$
   $-2v + 5x = 31$
   $2v = -6$

5. $-6u + 2x + 6z = -16$
   $3u - 6x = 9$
   $3u = 15$

6. $4a + 3v + 3y = 23$
   $3a + 4v = 9$
   $a = -1$

7. $-5c - 5v + 3x = 12$
   $3c + v = 1$
   $-3c = -6$

8. $-3u + y - 6z = 10$
   $-u - 5y = -18$
   $5u = -10$

Linear Systems (J) Answers

Solve each system of equations.

1. $a+6c+2x=-10$
$-2a+2c=0$
$-2a=0$
$a=0, c=0, x=-5$

2. $6a-4v+y=10$
$a-6v=-3$
$-2a=-6$
$a=3, v=1, y=-4$

3. $-3a-5b-6u=-34$
$3a+b=2$
$-2a=-2$
$a=1, b=-1, u=6$

4. $-6v+4x-5y=28$
$-2v+5x=31$
$2v=-6$
$v=-3, x=5, y=2$

5. $-6u+2x+6z=-16$
$3u-6x=9$
$3u=15$
$u=5, x=1, z=2$

6. $4a+3v+3y=23$
$3a+4v=9$
$a=-1$
$a=-1, v=3, y=6$

7. $-5c-5v+3x=12$
$3c+v=1$
$-3c=-6$
$c=2, v=-5, x=-1$

8. $-3u+y-6z=10$
$-u-5y=-18$
$5u=-10$
$u=-2, y=4, z=0$