Linear Systems (E)

Solve each system of equations.

1. $a + 5v - 3y = 6$
   $a + v = -2$
   $-6a = 24$

2. $-5u - v + 2y = -14$
   $u - v = 10$
   $5u = 30$

3. $-3c - 4y - 4z = 22$
   $3c + 3y = 3$
   $3c = 18$

4. $b + 5v - x = -18$
   $-3b + 2v = -5$
   $6b = -6$

5. $3c - x - 4z = -1$
   $5c + 6x = 27$
   $-c = -3$

6. $5a + 2y + z = 27$
   $-6a + 6y = -30$
   $-a = -6$

7. $-4b - 6c + 6u = 24$
   $-6b - 2c = 36$
   $-2b = 12$

8. $4b + 6x - 5z = 17$
   $-2b + x = 8$
   $5b = -5$

Linear Systems (E) Answers

Solve each system of equations.

1. $a + 5v - 3y = 6$
$a + v = -2$
$-6a = 24$
$a = -4, v = 2, y = 0$

5. $3c - x - 4z = -1$
$5c + 6x = 27$
$-c = -3$
$c = 3, x = 2, z = 2$

2. $-5u - v + 2y = -14$
$u - v = 10$
$5u = 30$
$u = 6, v = -4, y = 6$

6. $5a + 2y + z = 27$
$-6a + 6y = -30$
$-a = -6$
$a = 6, y = 1, z = -5$

3. $-3c - 4y - 4z = 22$
$3c + 3y = 3$
$3c = 18$
$c = 6, y = -5, z = -5$

7. $-4b - 6c + 6u = 24$
$-6b - 2c = 36$
$-2b = 12$
$b = -6, c = 0, u = 0$

4. $b + 5v - x = -18$
$-3b + 2v = -5$
$6b = -6$
$b = -1, v = -4, x = -3$

8. $4b + 6x - 5z = 17$
$-2b + x = 8$
$5b = -5$
$b = -1, x = 6, z = 3$

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