Linear Systems (A)

Solve each system of equations.

1.
$$-6v - 6y = 66$$

 $2v + 4y = -32$
5. $2y - 6z = -30$
 $-y - z = -1$

2.
$$3a - 3x = -3$$

 $-5a + x = -3$
6. $-5a + c = -30$
 $4a - 5c = 24$

3.
$$5a - v = -23$$

 $-a + v = 3$
7. $-3v + 3x = 12$
 $3v - 6x = -21$

4.
$$-6a - 5v = 46$$

 $-6a - 4v = 44$
8. $-3v - 3x = 15$
 $5v + x = -29$

Linear Systems (A) Answers

Solve each system of equations.

1.
$$-6v - 6y = 66$$

 $2v + 4y = -32$
 $v = -6, y = -5$
5. $2y - 6z = -30$
 $-y - z = -1$
 $y = -3, z = 4$

2.
$$3a - 3x = -3$$

 $-5a + x = -3$
 $a = 1, x = 2$
6. $-5a + c = -30$
 $4a - 5c = 24$
 $a = 6, c = 0$

3. 5a - v = -23
-a + v = 3
a = -5, v = -27. -3v + 3x = 12
3v - 6x = -21
v = -1, x = 3

4.
$$-6a - 5v = 46$$

 $-6a - 4v = 44$
 $a = -6, v = -2$
8. $-3v - 3x = 15$
 $5v + x = -29$
 $v = -6, x = 1$

Linear Systems (B)

Solve each system of equations.

1.
$$-a - z = 4$$

 $-3a + 3z = 24$
5. $-5x + 6z = 37$
 $5x + 4z = -17$

2.
$$-a + 5v = 18$$

 $5a + 6v = 3$
6. $5a - z = -8$
 $-2a + 5z = -6$

3.
$$4u - 2v = 26$$

 $-2u - 4v = 12$
7. $a - 2c = -8$
 $-a + 5c = 17$

4.
$$-2a + 5z = -32$$

 $-5a - 6z = -6$
8. $-5x + 4y = 23$
 $2x + 6y = 6$

Linear Systems (B) Answers

Solve each system of equations.

1. -a - z = 4 -3a + 3z = 24 a = -6, z = 25. -5x + 6z = 37 5x + 4z = -17x = -5, z = 2

2. -a + 5v = 18 5a + 6v = 3 a = -3, v = 36. 5a - z = -8 -2a + 5z = -6a = -2, z = -2

3. 4u - 2v = 26 -2u - 4v = 12 u = 4, v = -57. a - 2c = -8 -a + 5c = 17a = -2, c = 3

4. -2a + 5z = -32 -5a - 6z = -6 a = 6, z = -48. -5x + 4y = 23 2x + 6y = 6x = -3, y = 2

Linear Systems (C)

Solve each system of equations.

1. 4b - u = 3 -3b + u = -35. 5c + 2z = -25-4c - 4z = 20

2.
$$-6c - 2u = -6$$

 $-5c - 6u = -18$
6. $-3a + b = -15$
 $2a + 4b = 10$

3.
$$2x + 6z = 40$$

 $4x - 4z = 0$
7. $2b - 2v = -6$
 $-2b + 4v = 2$

4.
$$-6c + 6y = 6$$

 $4c + 6y = -24$
8. $3u + 2y = 4$
 $2u + 3y = 11$

Linear Systems (C) Answers

Solve each system of equations.

1. 4b - u = 35. 5c + 2z = -25-3b + u = -3-4c - 4z = 20b = 0, u = -3c = -5, z = 0

2.
$$-6c - 2u = -6$$

 $-5c - 6u = -18$
 $c = 0, u = 3$
6. $-3a + b = -15$
 $2a + 4b = 10$
 $a = 5, b = 0$

3. 2x + 6z = 40 4x - 4z = 0 x = 5, z = 57. 2b - 2v = -6 -2b + 4v = 2b = -5, v = -2

4. -6c + 6y = 6 4c + 6y = -24 c = -3, y = -28. 3u + 2y = 4 2u + 3y = 11u = -2, y = 5

Linear Systems (D)

Solve each system of equations.

1.
$$-5u + 2x = 22$$

 $-u - 6x = -34$
5. $6u - 2v = 18$
 $5u - 4v = 8$

2.
$$3a + 4c = -19$$

 $5a + 2c = -13$
6. $5v - 4x = 34$
 $6v - 2x = 24$

3.
$$-3b - u = -12$$

 $-b + 2u = -4$
7. $2a - 4u = 10$
 $3a + u = -6$

4.
$$-2u + 6x = 0$$

 $-4u + 3x = 9$
8. $6a - 5v = -49$
 $-4a - 6v = -14$

Linear Systems (D) Answers

Solve each system of equations.

1. $-5u + 2x = 22$	5. $6u - 2v = 18$
-u-6x=-34	5u - 4v = 8
u = -2, x = 6	u = 4, v = 3

2.
$$3a + 4c = -19$$

 $5a + 2c = -13$
 $a = -1, c = -4$
6. $5v - 4x = 34$
 $6v - 2x = 24$
 $v = 2, x = -6$

3. -3b - u = -12 -b + 2u = -4 b = 4, u = 07. 2a - 4u = 10 3a + u = -6a = -1, u = -3

4.
$$-2u + 6x = 0$$

 $-4u + 3x = 9$
 $u = -3, x = -1$
8. $6a - 5v = -49$
 $-4a - 6v = -14$
 $a = -4, v = 5$

Linear Systems (E)

Solve each system of equations.

1.
$$-5a - 4c = -4$$

 $2a - c = -14$
5. $-2u + 3x = 4$
 $-4u - x = -6$

2.
$$3b - 2u = -6$$

 $6b + 4u = -60$
6. $-2u + 4v = -12$
 $-2u - 4v = -4$

3.
$$6v + 3x = 21$$

 $6v - x = 33$
7. $b - 4z = -25$
 $4b - 2z = -30$

4.
$$5u - 4y = -38$$

 $-3u - y = 16$
8. $-4a - 2x = 22$
 $a + 6x = 0$

Linear Systems (E) Answers

Solve each system of equations.

1.
$$-5a - 4c = -4$$

 $2a - c = -14$
 $a = -4, c = 6$
5. $-2u + 3x = 4$
 $-4u - x = -6$
 $u = 1, x = 2$

2.
$$3b - 2u = -6$$

 $6b + 4u = -60$
 $b = -6, u = -6$
6. $-2u + 4v = -12$
 $-2u - 4v = -4$
 $u = 4, v = -1$

3. 6v + 3x = 21
6v - x = 33
v = 5, x = -37. b - 4z = -25
4b - 2z = -30
b = -5, z = 5

4.
$$5u - 4y = -38$$

 $-3u - y = 16$
 $u = -6, y = 2$
8. $-4a - 2x = 22$
 $a + 6x = 0$
 $a = -6, x = 1$

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Linear Systems (F)

Solve each system of equations.

1.
$$6v + 3z = -6$$

 $6v - 6z = -24$
5. $6x + 2z = -2$
 $x + 2z = 3$

2.
$$-6b + 4v = -32$$

 $2b - 4v = 16$
6. $-5v + 5y = 40$
 $-2v + 6y = 40$

3.
$$5a - 4u = -12$$

 $2a - u = -3$
7. $-2a + 3u = 4$
 $2a + 2u = 6$

4.
$$-2y + 5z = -24$$

 $-y + 4z = -18$
8. $2a + 4u = 0$
 $-3a + 5u = 11$

Linear Systems (F) Answers

Solve each system of equations.

1.
$$6v + 3z = -6$$

 $6v - 6z = -24$ 5. $6x + 2z = -2$
 $x + 2z = 3$
 $x = -1, z = 2$

2.
$$-6b + 4v = -32$$

 $2b - 4v = 16$
 $b = 4, v = -2$
6. $-5v + 5y = 40$
 $-2v + 6y = 40$
 $v = -2, y = 6$

3. 5a - 4u = -122a - u = -3a = 0, u = 3

7.
$$-2a + 3u = 4$$

 $2a + 2u = 6$
 $a = 1, u = 2$

4.
$$-2y + 5z = -24$$

 $-y + 4z = -18$
 $y = 2, z = -4$
8. $2a + 4u = 0$
 $-3a + 5u = 11$
 $a = -2, u = 1$

Linear Systems (G)

Solve each system of equations.

1.
$$-4c - 5x = -33$$

 $3c - 6x = -24$
5. $4u - 4x = 4$
 $u + 6x = -6$

2.
$$6c - 2x = 8$$

 $4c - 3x = 2$
6. $5a + 6u = -30$
 $5a - 6u = -30$

3.
$$4v + 3x = 19$$

 $-v + 4x = 0$
7. $-3a - u = 7$
 $6a - 2u = 2$

4.
$$2a + 6z = -20$$

 $6a + 2z = -28$
8. $-2b - 4c = -18$
 $b + 6c = 33$

Linear Systems (G) Answers

Solve each system of equations.

1. $-4c - 5x = -33$	5. $4u - 4x = 4$
3c - 6x = -24	u + 6x = -6
c = 2, x = 5	u = 0, x = -1

2.
$$6c - 2x = 8$$

 $4c - 3x = 2$
 $c = 2, x = 2$
6. $5a + 6u = -30$
 $5a - 6u = -30$
 $a = -6, u = 0$

3. 4v + 3x = 19 -v + 4x = 0 v = 4, x = 17. -3a - u = 7 6a - 2u = 2a = -1, u = -4

4. 2a + 6z = -20 6a + 2z = -28 a = -4, z = -28. -2b - 4c = -18 b + 6c = 33b = -3, c = 6

Linear Systems (H)

Solve each system of equations.

1. 6v + 3x = 0 4v - 6x = -165. 3c - u = 3-3c - 5u = -39

2.
$$-2c - 4u = 12$$

 $3c + u = -13$
6. $-6a - 6y = 42$
 $-6a + 3y = 15$

3.
$$-2u + 2x = 20$$

 $-5u + 4x = 44$
7. $-2u - 2z = -18$
 $-2u + 3z = 2$

4. -u - 5x = -13 3u + 4x = 178. 3a - 4u = -93a + u = 21

Linear Systems (H) Answers

Solve each system of equations.

1. 6v + 3x = 0
4v - 6x = -165. 3c - u = 3
-3c - 5u = -39
c = 3, u = 6

2. -2c - 4u = 12 3c + u = -13 c = -4, u = -16. -6a - 6y = 42 -6a + 3y = 15a = -4, y = -3

3. -2u + 2x = 20 -5u + 4x = 44 u = -4, x = 67. -2u - 2z = -18 -2u + 3z = 2u = 5, z = 4

4. -u - 5x = -13 3u + 4x = 17 u = 3, x = 28. 3a - 4u = -9 3a + u = 21a = 5, u = 6

Linear Systems (I)

Solve each system of equations.

1. 2b - y = 15 -5b - 2y = -245. 4a - 2u = 03a - 6u = -9

2.
$$4y - 4z = -40$$

 $-4y + 5z = 45$
6. $-3c - 3y = -9$
 $5c - 2y = -27$

3.
$$-4u + v = 7$$

 $6u - 4v = -18$
7. $c + 4u = -8$
 $4c + 2u = 10$

4.
$$-6a + z = 17$$

 $6a - 3z = -27$
8. $6v - 3y = -21$
 $-5v + 2y = 15$

Linear Systems (I) Answers

Solve each system of equations.

1. 2b - y = 15
-5b - 2y = -245. 4a - 2u = 0
3a - 6u = -9
a = 1, u = 2

2.
$$4y - 4z = -40$$

 $-4y + 5z = 45$
 $y = -5, z = 5$
6. $-3c - 3y = -9$
 $5c - 2y = -27$
 $c = -3, y = 6$

3. -4u + v = 7 6u - 4v = -18 u = -1, v = 37. c + 4u = -8 4c + 2u = 10c = 4, u = -3

4. -6a + z = 17 6a - 3z = -27 a = -2, z = 58. 6v - 3y = -21 -5v + 2y = 15v = -1, y = 5

Linear Systems (J)

Solve each system of equations.

1.
$$6b + 3x = 12$$

 $2b - 2x = 4$
5. $-b + u = -5$
 $-b - 4u = 5$

2.
$$-2x + 6y = -12$$

 $x - y = 2$
6. $-4a - 6u = 6$
 $a - 5u = 18$

3.
$$-6c + 5x = -2$$

 $2c + 5x = -26$
7. $-5a - z = 14$
 $a + 3z = 0$

4.
$$-2b + z = -6$$

 $-4b + z = -6$
8. $3a + 3x = -6$
 $-4a - 2x = 6$

Linear Systems (J) Answers

Solve each system of equations.

1.
$$6b + 3x = 12$$

 $2b - 2x = 4$
 $b = 2, x = 0$ 5. $-b + u = -5$
 $-b - 4u = 5$
 $b = 3, u = -2$

2.
$$-2x + 6y = -12$$

 $x - y = 2$
 $x = 0, y = -2$
6. $-4a - 6u = 6$
 $a - 5u = 18$
 $a = 3, u = -3$

3.
$$-6c + 5x = -2$$

 $2c + 5x = -26$
 $c = -3, x = -4$
7. $-5a - z = 14$
 $a + 3z = 0$
 $a = -3, z = 1$

4.
$$-2b + z = -6$$

 $-4b + z = -6$
 $b = 0, z = -6$
8. $3a + 3x = -6$
 $-4a - 2x = 6$
 $a = -1, x = -1$