

Exam Review - Systems of Equations

Solve each system by elimination.

$$\begin{aligned} 1) \quad & -9x + 7y = 28 \\ & 9x - 8y = -23 \end{aligned}$$

$$\begin{aligned} 2) \quad & -2x - 3y = 25 \\ & -6x + 3y = -9 \end{aligned}$$

$$\begin{aligned} 3) \quad & 3x + 10y = -26 \\ & 7x - 10y = 6 \end{aligned}$$

$$\begin{aligned} 4) \quad & -2x - 3y = -14 \\ & x + 3y = 16 \end{aligned}$$

$$\begin{aligned} 5) \quad & -4x - 3y = 1 \\ & -6x - 3y = -15 \end{aligned}$$

$$\begin{aligned} 6) \quad & 6x + 12y = 6 \\ & 6x + 11y = 6 \end{aligned}$$

$$\begin{aligned} 7) \quad & 5x + 11y = -39 \\ & 5x + 5y = -15 \end{aligned}$$

$$\begin{aligned} 8) \quad & -7x - 5y = -3 \\ & -5x - 15y = -25 \end{aligned}$$

$$\begin{aligned} 9) \quad & -9x + 5y = -29 \\ & 6x - 10y = -14 \end{aligned}$$

$$\begin{aligned} 10) \quad & -9x + 2y = 26 \\ & x + 4y = -24 \end{aligned}$$

$$\begin{aligned} 11) \quad & -7x + 5y = 11 \\ & 8x - 7y = -10 \end{aligned}$$

$$\begin{aligned} 12) \quad & 10x + 10y = -10 \\ & -4x - 3y = 13 \end{aligned}$$

$$\begin{aligned} 13) \quad & 5y - 10 = 10x \\ & \frac{1}{2}x = y + 4 \end{aligned}$$

$$\begin{aligned} 14) \quad & -3x = 2 - 4y \\ & 4x + 19 = 3y \end{aligned}$$

$$\begin{aligned} 15) \quad & -3y + x = 14 \\ & 5x = 14 + 7y \end{aligned}$$

$$\begin{aligned} 16) \quad & 8x = 4y \\ & -3y = 9 - 3x \end{aligned}$$

Solve each system by substitution.

$$\begin{aligned} 17) \quad & y = -8x - 1 \\ & y = -7x - 1 \end{aligned}$$

$$\begin{aligned} 18) \quad & y = -4x - 7 \\ & y = -10x - 13 \end{aligned}$$

$$\begin{aligned} 19) \quad & y = -5x + 4 \\ & y = -10x + 14 \end{aligned}$$

$$\begin{aligned} 20) \quad & y = -6x - 11 \\ & y = 4x + 19 \end{aligned}$$

$$\begin{aligned} 21) \quad & -7x + 3y = 9 \\ & y = 2x + 2 \end{aligned}$$

$$\begin{aligned} 22) \quad & 5x - 8y = -17 \\ & y = x + 1 \end{aligned}$$

$$\begin{aligned} 23) \quad & -2x - 6y = 30 \\ & y = x - 13 \end{aligned}$$

$$\begin{aligned} 24) \quad & -10x - 9y = -21 \\ & y = -5x + 14 \end{aligned}$$

$$\begin{aligned} 25) \quad & -6x - 6y = -24 \\ & -6x + y = 25 \end{aligned}$$

$$\begin{aligned} 26) \quad & 9x - 2y = 8 \\ & -6x + y = -4 \end{aligned}$$

$$\begin{aligned} 27) \quad & 4x + 4y = 4 \\ & -3x - y = 13 \end{aligned}$$

$$\begin{aligned} 28) \quad & -3x - 2y = -13 \\ & -2x + 7y = 8 \end{aligned}$$

$$\begin{aligned} 29) \quad & -6x - 2y = 14 \\ & 7x - 2y = 1 \end{aligned}$$

$$\begin{aligned} 30) \quad & 5x + 4y = 0 \\ & -3x - 5y = -26 \end{aligned}$$

Answers to Exam Review - Systems of Equations

1) $(-7, -5)$

5) $(8, -11)$

9) $(6, 5)$

13) $(-4, -6)$

17) $(0, -1)$

21) $(-3, -4)$

25) $(-3, 7)$

29) $(-1, -4)$

2) $(-2, -7)$

6) $(1, 0)$

10) $(-4, -5)$

14) $(-10, -7)$

18) $(-1, -3)$

22) $(3, 4)$

26) $(0, -4)$

30) $(-8, 10)$

3) $(-2, -2)$

7) $(1, -4)$

11) $(-3, -2)$

15) $(-7, -7)$

19) $(2, -6)$

23) $(6, -7)$

27) $(-7, 8)$

4) $(-2, 6)$

8) $(-1, 2)$

12) $(-10, 9)$

16) $(-3, -6)$

20) $(-3, 7)$

24) $(3, -1)$

28) $(3, 2)$