

Q2 Exam Review: Solving systems Algebraically

Date _____ Alg _____

Solve each system by elimination.

1)
$$\begin{aligned} -6x + 6y &= 18 \\ -x - y &= -5 \end{aligned}$$

2)
$$\begin{aligned} -6 &= -2y + 2x \\ -10y &= 12 - 4x \end{aligned}$$

Solve the following using any method you choose. Write the method you chose.

3)
$$\begin{aligned} 2y - 10 &= 2x \\ 10 &= -10y - 2x \end{aligned}$$

4)
$$\begin{aligned} -4x + 3y &= 8 \\ y &= -2x + 6 \end{aligned}$$

5)
$$\begin{aligned} 5x - y &= 20 \\ x + y &= -2 \end{aligned}$$

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

7)
$$\begin{aligned} 0 &= -2x + 3y - 1 \\ 4 + 12y &= 8x \end{aligned}$$

8)
$$\begin{aligned} 3y + 7x &= 8 \\ -8x - 12 &= 14y \end{aligned}$$

Answers to Q2 Exam Review: Solving systems Algebraically

1) $(1, 4)$
5) $(3, -5)$

2) $(-7, -4)$
6) $(0, 1)$

3) $(-5, 0)$
7) No solution

4) $(1, 4)$
8) $(2, -2)$