

Solving Linear Systems

Block: ____ Mark Out Of 24 ____

Solve each system by elimination. Don't forget to check your solution. 3 marks each.

1)
$$\begin{aligned} -2x - 8y &= 20 \\ -5x + 8y &= 22 \end{aligned}$$

2)
$$\begin{aligned} -8x - 4y &= 0 \\ -5x - 4y &= -15 \end{aligned}$$

3)
$$\begin{aligned} 8x + y &= 17 \\ -10x + 6y &= -14 \end{aligned}$$

4)
$$\begin{aligned} 6x - 3y &= -21 \\ -5x + 4y &= 22 \end{aligned}$$

Solve each system by substitution. Don't forget to check your solution. 3 marks each.

$$\begin{aligned} 5) \quad & y = -2x - 5 \\ & y = -8x + 1 \end{aligned}$$

$$\begin{aligned} 6) \quad & -6x - 2y = 20 \\ & y = -2x - 6 \end{aligned}$$

$$\begin{aligned} 7) \quad & -2x + 7y = 24 \\ & 4x + y = -18 \end{aligned}$$

$$\begin{aligned} 8) \quad & 8x - 5y = 6 \\ & 7x - 7y = 21 \end{aligned}$$