

Systems of Equations Worksheet 16

Use substitution to solve each system of equations. Remember to write your answers as an ordered pair, i.e. (x, y) .

$$1. \begin{cases} -6x - 13y = -11 \\ -6x + 16y = -40 \end{cases}$$

$$2. \begin{cases} -6x - 4y = 130 \\ -8x + 4y = 108 \end{cases}$$

$$3. \begin{cases} 8x - 2y = -58 \\ 13x + 2y = -131 \end{cases}$$

$$4. \begin{cases} 13x - 14y = -45 \\ 18x - 14y = -100 \end{cases}$$

$$5. \begin{cases} -3x - 10y = 238 \\ -10x - 10y = 350 \end{cases}$$

$$6. \begin{cases} -8x + 12y = 152 \\ -20x - 12y = -292 \end{cases}$$

$$7. \begin{cases} -12x - 6y = -12 \\ 12x + 4y = 4 \end{cases}$$

$$8. \begin{cases} 15x + 9y = 123 \\ 15x - 7y = -69 \end{cases}$$

$$9. \begin{cases} 6x - 7y = -135 \\ 6x + 8y = -90 \end{cases}$$

$$10. \begin{cases} -8x + y = -118 \\ 8x - 15y = -134 \end{cases}$$

$$11. \begin{cases} -15x - 7y = -159 \\ 20x + 7y = 254 \end{cases}$$

$$12. \begin{cases} -6x - 12y = 96 \\ 3x - 12y = -66 \end{cases}$$