

Systems of Equations Worksheet 14

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

$$1. \begin{cases} 60x + 15y = -54 \\ 110x - 3y = -38 \end{cases}$$

$$2. \begin{cases} -117x + 200y = -29 \\ 117x - 200y = 28 \end{cases}$$

$$3. \begin{cases} -24x + 130y = 158 \\ -48x - 220y = -68 \end{cases}$$

$$4. \begin{cases} 50x + 29y = -211 \\ -250x - 145y = -211 \end{cases}$$

$$5. \begin{cases} -17x - 19y = 0 \\ 34x + 38y = 0 \end{cases}$$

$$6. \begin{cases} -180x - 22y = 20 \\ -342x + 7y = 38 \end{cases}$$

$$7. \begin{cases} -42x + 102y = -398 \\ -3x + 63y = -177 \end{cases}$$

$$8. \begin{cases} 100x + 37y = 64 \\ 430x + 40y = 37 \end{cases}$$