

Systems of Equations Worksheet 13

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

$$1. \begin{cases} 72x - 111y = 52 \\ -105x - 81y = 248 \end{cases}$$

$$2. \begin{cases} 150x + 376y = -137 \\ -40x - 272y = 58 \end{cases}$$

$$3. \begin{cases} -368x - 4y = 48 \\ 24x - 66y = 30 \end{cases}$$

$$4. \begin{cases} 138x + 200y = 447 \\ 2x - 235y = -279 \end{cases}$$

$$5. \begin{cases} -30x - 147y = 73 \\ 300x + 108y = 178 \end{cases}$$

$$6. \begin{cases} 31x + 41y = -246 \\ 29x - 4y = 24 \end{cases}$$

$$7. \begin{cases} 26x + 6y = -204 \\ 5x - 27y = -58 \end{cases}$$

$$8. \begin{cases} 140x - 185y = -27 \\ 230x - 55y = 105 \end{cases}$$