

Systems of Equations Worksheet 18

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

$$1. \begin{cases} -4x + 4y = 108 \\ -14x + 16y = 402 \end{cases}$$

$$2. \begin{cases} -18x - 17y = -140 \\ 18x + 7y = 100 \end{cases}$$

$$3. \begin{cases} -x - 8y = 60 \\ 14x - 2y = 300 \end{cases}$$

$$4. \begin{cases} -17x + 20y = -3 \\ 3x - y = 41 \end{cases}$$

$$5. \begin{cases} 10x - 20y = -500 \\ -15x + 19y = 552 \end{cases}$$

$$6. \begin{cases} 11x - 16y = 156 \\ 13x + 18y = -74 \end{cases}$$

$$7. \begin{cases} -14x + 11y = 12 \\ -3x - 5y = 135 \end{cases}$$

$$8. \begin{cases} 8x + 9y = -111 \\ x - 7y = 43 \end{cases}$$

$$9. \begin{cases} 3x - 2y = 14 \\ x - 17y = 217 \end{cases}$$

$$10. \begin{cases} 0x + 13y = -247 \\ -4x + 10y = -138 \end{cases}$$

$$11. \begin{cases} 7x + 8y = 264 \\ 3x - 10y = -142 \end{cases}$$

$$12. \begin{cases} -6x + y = 92 \\ 19x + 19y = -247 \end{cases}$$

$$13. \begin{cases} -x + 15y = -307 \\ x - 6y = 127 \end{cases}$$

$$14. \begin{cases} 11x + 20y = -609 \\ 5x + 12y = -335 \end{cases}$$

$$15. \begin{cases} -18x - 12y = -324 \\ x - 3y = -4 \end{cases}$$

$$16. \begin{cases} -9x - 3y = -180 \\ -12x + 8y = -168 \end{cases}$$

$$17. \begin{cases} -8x + 18y = -368 \\ -15x - 11y = 26 \end{cases}$$

$$18. \begin{cases} 5x + 2y = 104 \\ -4x - 14y = -294 \end{cases}$$