

Systems of Equations Worksheet 6

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

$$1. \begin{cases} y = 3x + 18 \\ y = 2x + 11 \end{cases}$$

$$2. \begin{cases} y = -\frac{3}{2}x \\ y = -\frac{5}{2}x \end{cases}$$

$$3. \begin{cases} y = \frac{1}{5}x - 8 \\ y = -5x + 18 \end{cases}$$

$$4. \begin{cases} y = 4x - 25 \\ y = x - 1 \end{cases}$$

$$5. \begin{cases} y = -x \\ y = x + 2 \end{cases}$$

$$6. \begin{cases} y = -\frac{3}{4}x - 5 \\ y = 5x + 41 \end{cases}$$

$$7. \begin{cases} y = -4x - 6 \\ y = 2x \end{cases}$$

$$8. \begin{cases} y = x \\ y = -x - 6 \end{cases}$$

$$9. \begin{cases} y = -2x + 3 \\ y = x - 12 \end{cases}$$

$$10. \begin{cases} y = -\frac{1}{3}x - 5 \\ y = -4 \end{cases}$$

$$11. \begin{cases} y = 2x - 9 \\ y = -x - 6 \end{cases}$$

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

$$13. \begin{cases} y = 2x + 16 \\ y = \frac{2}{5}x \end{cases}$$

$$14. \begin{cases} y = \frac{1}{5}x - 5 \\ y = -3 \end{cases}$$

$$15. \begin{cases} y = x - 1 \\ y = -\frac{4}{3}x + 20 \end{cases}$$

$$16. \begin{cases} y = -\frac{4}{3}x + 5 \\ y = x + 5 \end{cases}$$

$$17. \begin{cases} x = -5y - 15 \\ x = -3y - 7 \end{cases}$$

$$18. \begin{cases} y = \frac{3}{4}x - 2 \\ y = 5x + 32 \end{cases}$$