

Homework

Solve each system algebraically. Then represent the solution on a **GRAPH**. Label any key points.

$$1. \begin{cases} xy = -\frac{9}{5} \\ 3x + 2y = 6 \end{cases}$$

$$4. \begin{cases} 4x - 9y = 9 \\ xy = 1 \end{cases}$$

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

$$5. \begin{cases} 2x + 2y = 3 \\ xy = -1 \end{cases}$$

$$3. \begin{cases} y = \sqrt{x} \\ x - y = 6 \end{cases}$$

$$6. \begin{cases} y = x^2 \\ y = \sqrt{x} \end{cases}$$

Solve each system algebraically.

$$7. \begin{cases} \frac{1}{x} + \frac{1}{y} = 5 \\ \frac{1}{x} - \frac{1}{y} = -3 \end{cases}$$

$$8. \begin{cases} \frac{1}{x} - \frac{1}{y} = 4 \\ \frac{1}{x} + \frac{1}{y} = -2 \end{cases}$$