

8-3 System of Equations Using Graphing

Name: _____

Time> Start: _____ Finish: _____ Total Time = _____

Use Desmos on the computer to graph these systems and get your answers. Remember that you are looking for where the lines cross. Draw a little rough sketch of the graph below each problem, please.

_____ 1.
$$\begin{cases} y = 2x - 3 \\ 4x - y = 9 \end{cases}$$

_____ 2.
$$\begin{cases} 3x - 5y = 1 \\ 4x - y = 7 \end{cases}$$

_____ 3.
$$\begin{cases} y = x^2 + 4x - 12 \\ y = 5x \end{cases}$$

_____ 4.
$$\begin{cases} y = x^2 \\ y = -x^2 + 4 \end{cases}$$

_____ 5.
$$\begin{cases} y = x^2 + 5x + 4 \\ y = x^2 + 3x + 2 \end{cases}$$

_____ 6.
$$\begin{cases} x^2 + y^2 = 4 \\ y = x^2 - 4 \end{cases}$$

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

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