

**LESSON**

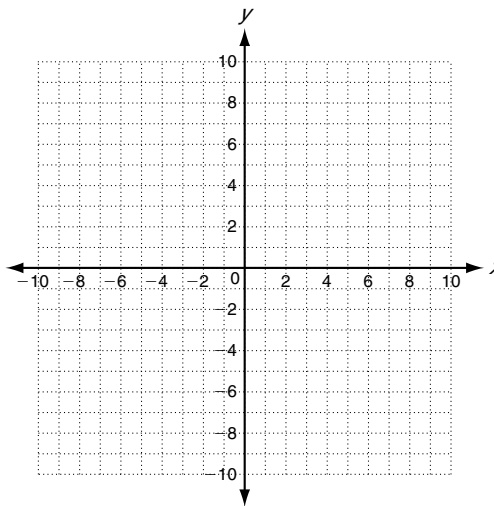
**Challenge**

**6-1 Solving Systems by Graphing**

Sometimes one or both equations in a system will be non-linear. The solutions to these systems will still be where the graphs intersect. This can happen in more than one place. Recall that you can graph any equation by generating and plotting ordered pairs.

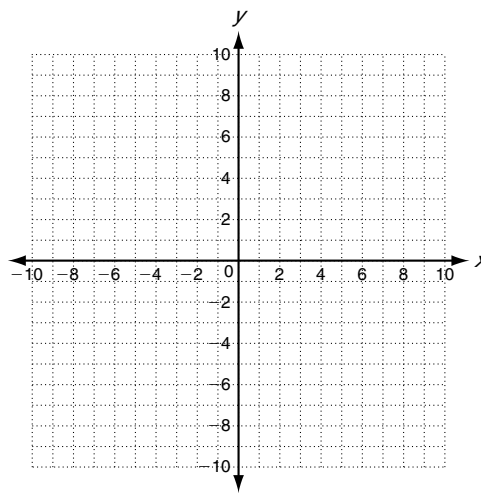
Solve each system by graphing.

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



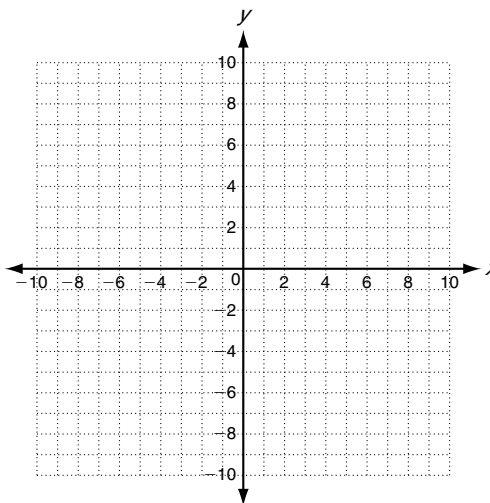
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2. 
$$\begin{cases} y = -x^2 + 5 \\ y = x^2 - 5 \end{cases}$$



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3. 
$$\begin{cases} y = |x + 1| \\ y = \frac{1}{2}x + 3 \end{cases}$$



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