## EXPLORATION

## 6-1

## Solving Systems by Graphing

You will need a graphing calculator for this Exploration.

1. Press $Y=$ and enter the equations $y=2 x-5$ and $y=-x+4$ as Y 1 and $\mathbf{Y} 2$.
2. Press 2nd $\underset{\sim}{\text { ande }}$ to view a table of values for the two equations.
3. Use the table to find an $x$-value that produces the same $y$-value for both equations. Write this $x$-value and the corresponding $y$-value as an ordered pair.
4. Use the arrow keys to scroll up and down the table. Does there appear to be any other $x$-value that produces the same $y$-value for both equations?
5. Press craptl to view a graph of the equations.


## THINK AND DISCUSS

6. Describe the graph of the functions.
7. Explain what happens on the graph at the point that you found in Step 3.

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3. Use the table to find an $x$-value that produces the same $y$-value for both equations. Write this $x$-value and the corresponding $y$-value as an ordered pair. $(3,1)$
4. Use the arrow keys to scroll up and down the table. Does there appear to be any other $x$-value that produces the same $y$-value for both equations? no
5. Press Crapt to view a graph of the equations.


## THINK AND DISCUSS

6. Describe the graph of the functions. two intersecting lines
7. Explain what happens on the graph at the point that you found in Step 3. The lines intersect at $(3,1)$.
