$\qquad$ , Period $\qquad$ Mr. Rogove Date: $\qquad$

LEARNING OBJECTIVE: We will graph linear equations using the standard form of a linear equation. (G8M4L12)

## CONCEPT DEVELOPMENT:

We can use the standard form of linear equations $(a x+b y=c)$ to graph linear equations
Example: $x+y=6$


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## GUIDED PRACTICE:

Steps for Finding Solutions to Linear Equations (and Graphing Them)

1. Select a value for $x$, and find the corresponding $y$ value that will make the equation true.
2. Plot this $(\mathrm{x}, \mathrm{y})$ point on the coordinate plane and enter it in the table.
3. Make a determination about the shape of the linear equation.

Find 10 solutions to the linear equation $3 x+y=-8$ and plot the points on a coordinate plane.



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Find at least 10 solutions to the linear equat 0 n $x-5 y=11$ and plot the points on the coordinate plane.

2. Find at least 3 negative values for $x$.

| $x$ | $y$ |
| :---: | :---: |
| 3 | -1.6 |
| 11.5 | 1 |
| 16 | 1 |
| 26 | 3 |
| -5 | $\frac{16}{5}$ |
| -4 | -3 |
| 11 | 0 |
| 1 | -2 |
|  |  |
|  |  |



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Math $\qquad$ , Period $\qquad$ Mr. Rogove Date: $\qquad$

## INDEPENDENT PRACTICE:

Find at least 10 solutions to the linear equation $2 x+4 y=4$ and plot the points on a coordinate plane.

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## Activating Prior KnOWLEDGE:

| Is $(-1,2)$ a solution to the linear |  |
| :--- | :--- |
| equation $2 x-2 y=5 ?$ | Is $(4,-5)$ a solution to the linear <br> equation $x+3 y=-11 ?$ |
|  |  |

## CLOSURE:

Can you write an equation that will graph as something other than a line?

## TEACHER NOTES:

Lesson 13 and 14 from Engage NY Module 4, grade 8.
Maybe do IM Who has the best job?

