Name:
Graphing Equations - Graphing using a table of values

Date:
Class: Pre-Algebra

3 Complete the table
for $y=-2 x$ and graph the resulting line.

| $x$ | $y$ |
| :---: | :---: |
| $-2^{-4} \cdot-4$ | 8 |
| $0 \cdot 0$ | 0 |
| $3 \cdot 0$ | -6 |
| $-2 \cdot 3$ |  |



2 Complete the table for $y=3 x+1$ and graph the resulting line.

$$
\begin{aligned}
& 3 \cdot-3+1=-9+1 \\
& 3 \cdot 0+1=0+1 \\
& 3 \cdot 2+1=6+1
\end{aligned}
$$




| $x$ | $y$ |
| :---: | :---: |
| -5 | -2 |
| $-5+3$ | 2 |
| 0 | 3 |
| $0+3$ | 7 |
| 4 | 7 |



Complete the table for $y=x+3$ and graph the resulting line.

4 Complete the table
for $y=-x-2$ and graph the resulting line.
$-(-3)-2=3-2$
$-(0)-2=0-2$

$-(4)-2=-4-2$


For the
equation $y=2 x-3$, complete the table for the given values of $x$. Usisg ac...tation the tine of the eqularions on ne conordinate plañe below. Be cure coppes all points iromitio sas and firnwa line comectimy to reints. $\quad \begin{aligned} & 2 \cdot 3-3=6-3\end{aligned}$


6 Complete the table for $y=3 x-2$ and graph the resulting line. $\quad 3 \cdot 2-2=6-2$

| $\boldsymbol{x}$ | -2 | -1 | 0 | 1 | 2 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\boldsymbol{y}$ | -8 | -5 | -2 | 1 | 4 |



7 Graph the line $x=-3$.


8 Graph the line $y=2$.


9 Complete the table for $y=\frac{1}{2} x+3$ and graph the resulting

$$
\begin{aligned}
& \frac{1}{2}(-4)+3=-2+3 \\
& \frac{1}{2}(-2)+3=-1+3 \\
& \frac{1}{2}(0)+3=0+3 \\
& \frac{1}{2}(2)+3=1+3 \\
& \frac{1}{2}(4)+3=7+3 \\
& \hline
\end{aligned}
$$

io Complete the table for $y=\frac{x}{4}-1$ and graph the resulting line.
ii Complete the table for $y=\frac{1}{3} x+4$ and graph the resulting line.

| $\frac{1}{3}(-3)+4=-1+4$ |  |  |
| :--- | :--- | :--- |
| $\frac{1}{3}(0)+4$ | $=0+4$ |  |
| $\frac{1}{3}(3)+4$ | $1+4$ | $\mathbf{3}$ |

$$
\frac{1}{3}(-3)+4=-1+4
$$

$$
\frac{1}{3}(0)+4=0+4
$$

$$
\frac{1}{3}(3)+4=1+4
$$

$$
\frac{1}{3}(6)+4=2+4
$$



12 Complete the table for $y=\frac{1}{5} x+1$ and graph the resulting line.

$$
\begin{aligned}
& \frac{1}{5}(-5)+1=-1+1 \\
& \frac{1}{5}(0)+1=0+1 \\
& \frac{1}{5}(5)+1=1+1
\end{aligned}
$$

| $x$ | $y$ |
| :---: | :---: |
| -5 | $\bigcirc$ |
| 0 | 1 |
| 5 | 2 |



