Linear Equations Worksheet- 6.5/6.6

1. Graph: \( y = -x + 2 \)
   Find the ordered pairs.
   \[
   \begin{array}{c|c|c}
   x & y = -x + 2 & y \\
   \hline
   & & \\
   \end{array}
   \]
   \(-\)intercept:
   \(-\)intercept:
   slope:

2. Graph: \( y = 2x - 2 \)
   Find the ordered pairs.
   \[
   \begin{array}{c|c|c}
   x & y = 2x - 2 & y \\
   \hline
   & & \\
   \end{array}
   \]
   \(-\)intercept:
   \(-\)intercept:
   slope:

3. Graph: \( y = -3x + 3 \)
   Find the ordered pairs.
   \[
   \begin{array}{c|c|c}
   x & y = -3x + 3 & y \\
   \hline
   & & \\
   \end{array}
   \]
   \(-\)intercept:
   \(-\)intercept:
   slope:
4. Graph: \( y = \frac{1}{2}x - 1 \)
Find the ordered pairs.

<table>
<thead>
<tr>
<th>( x )</th>
<th>( y = \frac{1}{2}x - 1 )</th>
<th>( y )</th>
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<tbody>
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\( x \)-intercept:
\( y \)-intercept:
slope:

5. Graph: \( y = -\frac{1}{3}x + 2 \)
Find the ordered pairs.

<table>
<thead>
<tr>
<th>( x )</th>
<th>( y = -\frac{1}{3}x + 2 )</th>
<th>( y )</th>
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\( x \)-intercept:
\( y \)-intercept:
slope:

6. Graph: \( y = \frac{3}{4}x \)
Find the ordered pairs.

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<thead>
<tr>
<th>( x )</th>
<th>( y = \frac{3}{4}x )</th>
<th>( y )</th>
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\( x \)-intercept:
\( y \)-intercept:
slope:
7. Graph: \( y = \frac{2}{3}x - 4 \)
Find the ordered pairs.

<table>
<thead>
<tr>
<th>( x )</th>
<th>( y = \frac{2}{3}x - 4 )</th>
<th>( y )</th>
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\( x \)-intercept:
\( y \)-intercept:
slope:

8. Plot the following points on the graph. Label each point by its letter.
A ( -5, 4)
B (3, -1)
C (0, 5)
D ( -2, 0)

9. Fill in the coordinates for the points below:
A ( , )
B ( , )
C ( , )
D ( , )
10. Is \((1, -3)\) a solution of \(y = -2x - 1\)?

11. Is \((-1, 2)\) a solution of \(y = \frac{1}{2}x - 1\)?

12. Is \((0, 0)\) a solution of \(y = -\frac{3}{4}x\)?

13. Find the ordered-pair solution of \(y = 4x + 1\) corresponding to \(x = -1\).

14. Find the ordered-pair solution of \(y = -\frac{1}{3}x + 1\) corresponding to \(x = 0\).

15. Is this the graph of a straight line?
   \[y = 3x^2 + 4\]

16. Is this the graph of a straight line?
   \[y = -2x - 5\]