

# Algebra 1

## 4.4 Practice Worksheet

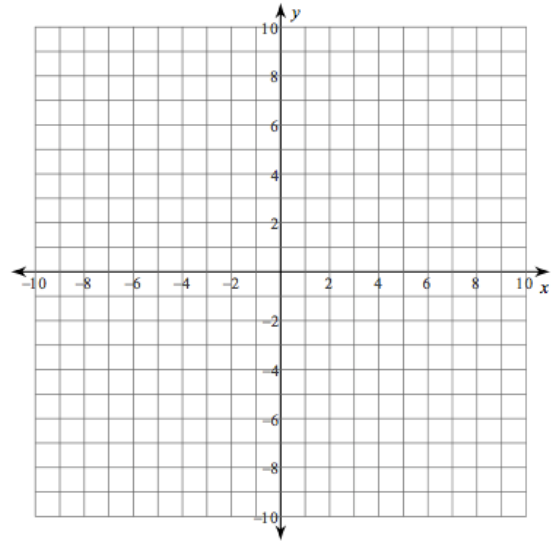
Name \_\_\_\_\_

Date \_\_\_\_\_

**Directions:** Graph each ***LINEAR FUNCTION*** using a table of values.

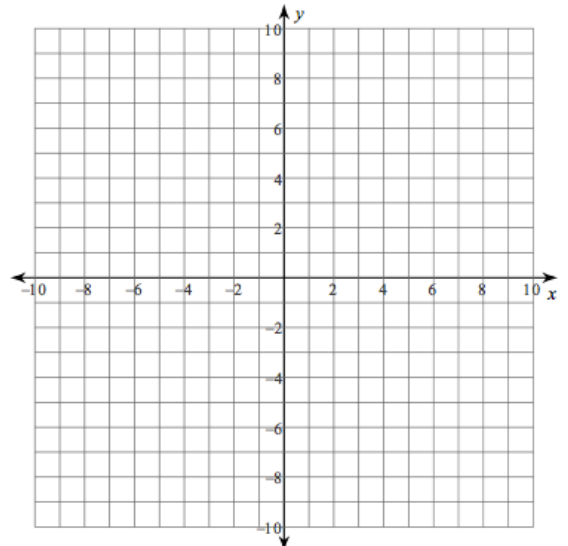
1. Graph  $y = x - 5$

x	$y = x - 5$	(x, y)



2. Graph  $y = -\frac{1}{4}x + 3$  (HINT: Choose x values that are easily divisible by 4.)

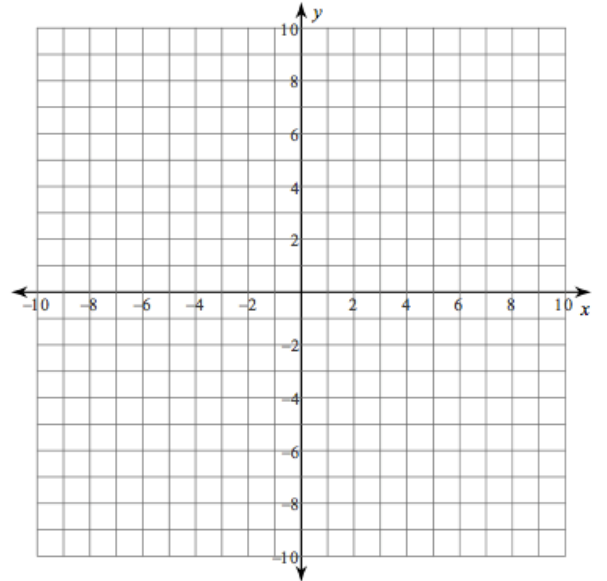
x	$y = -\frac{1}{4}x + 3$	(x, y)



**Directions:** Graph each **NON-LINEAR FUNCTION** using a table of values.

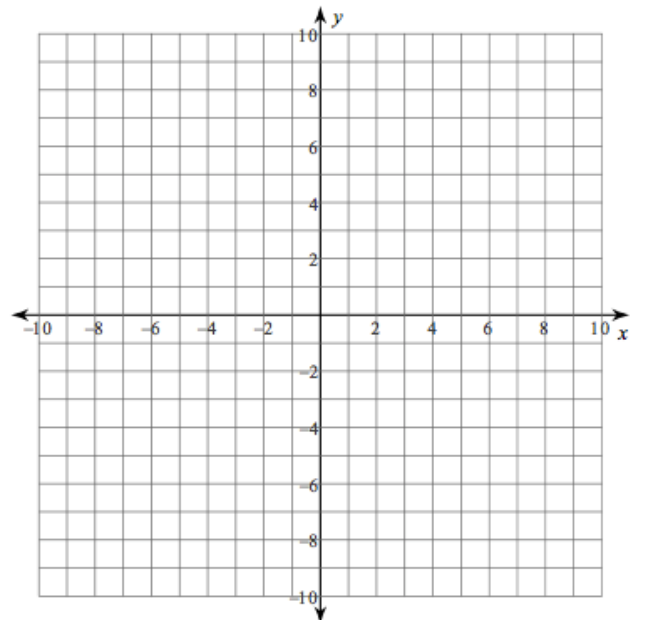
3. Graph  $y = |x| - 3$

x	$y =  x  - 3$	(x, y)
-2		
-1		
0		
1		
2		



4. Graph  $y = x^2 - 1$

x	$y = x^2 - 1$	(x, y)
-2		
-1		
0		
1		
2		



5. **Circle** if the equation represents a linear or non-linear function.

a.  $y = -2x + 7$                       LINEAR            or            NON-LINEAR

b.  $y = \frac{4}{5}x^2 - 3$                       LINEAR            or            NON-LINEAR

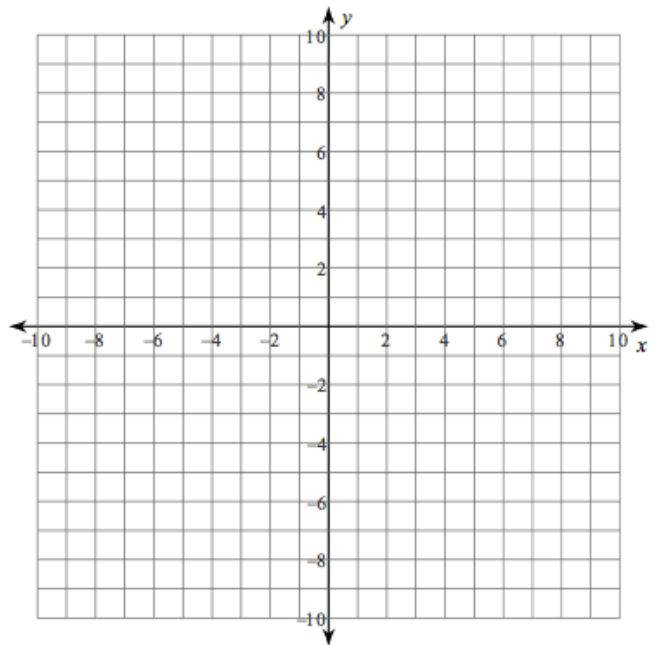
c.  $y = 5|x| - 2$                       LINEAR            or            NON-LINEAR

d.  $y = \frac{2}{3}x + 1$                       LINEAR            or            NON-LINEAR

**MIXED PRACTICE** Graph each **LINEAR** or **NON-LINEAR** function using a table.

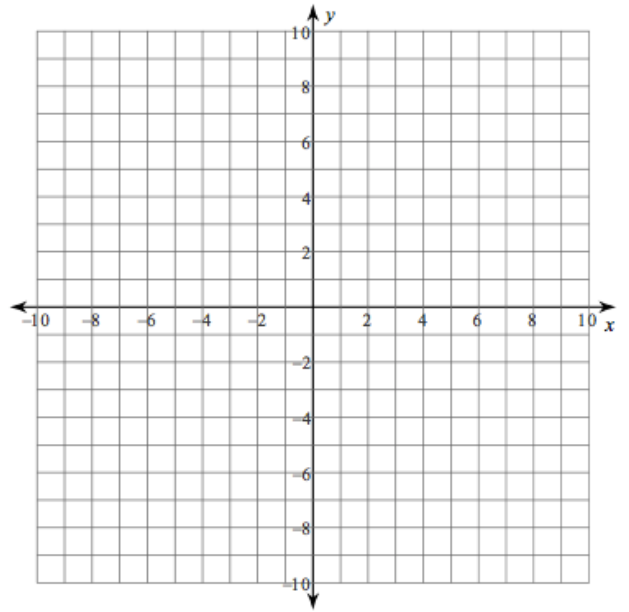
6. Graph  $y = -\frac{3}{2}x + 4$  (HINT: Choose x values that are divisible by 2)

x	$y = -\frac{3}{2}x + 4$	(x, y)



7. Graph  $y = |-2x|$

<b>x</b>	<b><math>y =  -2x </math></b>	<b>(x, y)</b>
<b>-2</b>		
<b>-1</b>		
<b>0</b>		
<b>1</b>		
<b>2</b>		



8. Graph  $y = -2x^2$

<b>x</b>	<b><math>y = -2x^2</math></b>	<b>(x, y)</b>
<b>-2</b>		
<b>-1</b>		
<b>0</b>		
<b>1</b>		
<b>2</b>		

