Lines: Lesson 1

Introduction to Lines: Notes

Name: _____

List some of the infinite answers to $y=-3x+5$

x = _____ y = _____

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To "solve" lines:

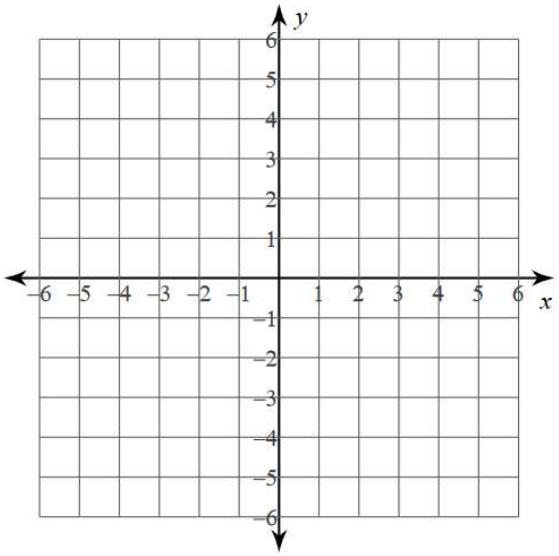
1. Make a table. _____, the equation, _____ , point.
2. Choose _____ values (at least _____).

   Best choices: _____ and _____ OR in $\frac{2}{3}x+8=y$, choose _____ and _____.
3. Plug in x's and _____ .
4. Translate x and y into a _____ .
5. _____ your points and make a _____ .

Solve:

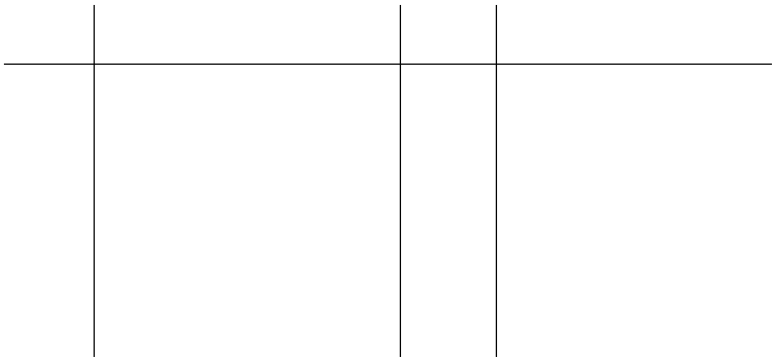
$y=-3x+5$

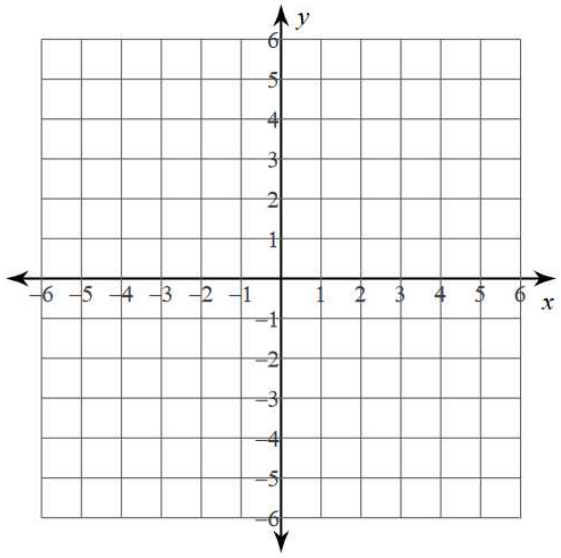
x	$-3x+5$	y	point



Solve:

$y = \frac{1}{4}x - 2$





y-intercept: _____

slope: $\frac{\text{up}}{\text{over}}$: _____

Which of these points fit on the line $y = -2x + 1$? (1, 3) (0, 5) (2, -3)

_____ = −2· _____ +1 _____ = −2· _____ +1 _____ = −2· _____ +1

What we know about lines so far:

1. Any equation with an _____ and _____ , where they are not raised to visible powers, will create a _____ _____ .
2. We can create a _____ of values to fit the *x*'s and *y*'s.
3. Every point on the line is an _____ to the equation.
4. The *y*-intercept is the _____ number when written like this: *y* = .
5. To go from one point to another, I go _____ the _____ number, _____ the bottom number, and is called the _____ .