Graphing using the Table Method

How can you tell if an equation is linear?

- ☆Variables are to the first power.
- ☆The equation contains only one or two variables.
- ☆If the ordered pairs are graphed, they form a straight line.

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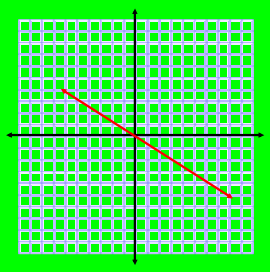
A **solution** to an equation is an ordered pair (x,y) that makes the equation true.

How many solutions are there to a linear equation?



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Ex1) Determine whether the point is a solution?

a) $4x - y = 1$; (-1,3)

b) $4x - y = 1$; (1,3)

Try#1. (-2, -6)

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To use the table method:

1. Find 3 ordered pairs (solutions) to the linear equation.

x	y
-1	
0	
1	

or

x	y
-1	
0	
1	

2. Plot the 3 points and draw a straight line. (If they don't connect you made a mistake.)

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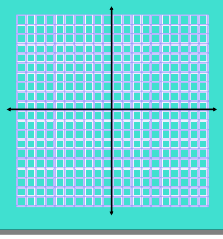
Ex2a) $y = x + 1$

1. | x | y | or | x | y |

2.



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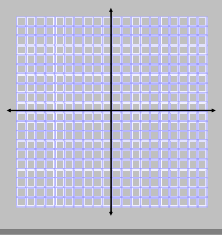
Ex2b) $y = 3x - 2$

1. | x | y | or | x | y |

2.



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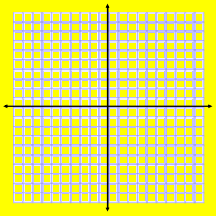
Ex2c) -9x + 3y = -6

1. | x | y | or | x | y |

2. 

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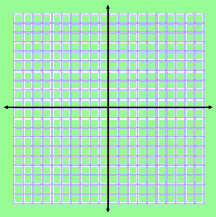
Ex2c) -2x + y = -4

1. | x | y | or | x | y |

2. 

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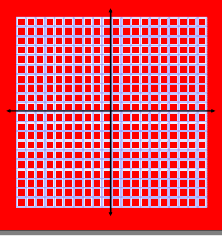
Try #2) y = x - 4

1. | x | y | or | x | y |

2. 

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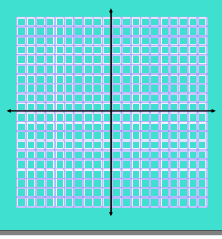
Try #3) 3x - y = 5

1. | x | y | or | x | y |

2. 

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Ex3) ***Special Equations***

1.Use a table of values to graph:

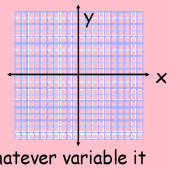
x=#

x	y
#	-1
#	0
#	1

y=#

x	y
-1	#
0	#
1	#

2. Plot the points and the line will either be vertical or horizontal.



*__Short cut method__- whatever variable it contains, that is the only axis it goes through

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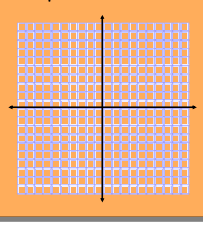
Ex3a) x = - 3

1. Make a table of values: | x | y |

2. Graph the points and make a line.



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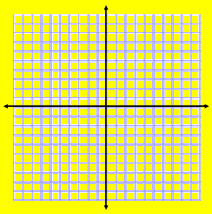
Ex3b) y = - 4

1. Make a table of values:

x	y

2. Graph the points and make a line.



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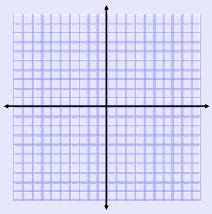
Try #4) x = -6

1. Make a table of values:

x	y

2. Graph the points and make a line.



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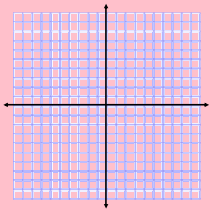
Try #5) y = 2

1. Make a table of values:

x	y

2. Graph the points and make a line.



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