

LINEAR EQUATION ($y = 2x - 5$)

ALL VARIABLES ARE TO THE FIRST POWER

* CANNOT HAVE VARIABLES IN DENOMINATOR

1. $y = 3x^2 - 5$

(NO)

4. $y = \frac{5}{x-1}$

(NO)

2. $3y + 2x = 7$

(YES)

3. $x + 3 = 0$

(YES)

5. $y = -2x + 3$

X	Y
-1	5
0	3
1	1

X = -1

$y = -2(-1) + 3$

$y = 2 + 3$

$y = 5$

X = 0

$y = -2(0) + 3$

$y = 3$

X = 1

$y = -2(1) + 3$

$= -2 + 3$

$= 1$



6. $4x - 3y = 12$

X	Y
-1	$-\frac{16}{3}$
0	-4
1	$-\frac{8}{3}$

X = -1

$4(-1) - 3y = 12$

$-4 - 3y = 12$

$-3y = 12 + 4$

$-3y = 16$

$\frac{-3y}{-3} = \frac{16}{-3}$

$y = -\frac{16}{3}$

X = 0

$4(0) - 3y = 12$

$-3y = 12$

$\frac{-3y}{-3} = \frac{12}{-3}$

$y = -4$

X = 1

$4(1) - 3y = 12$

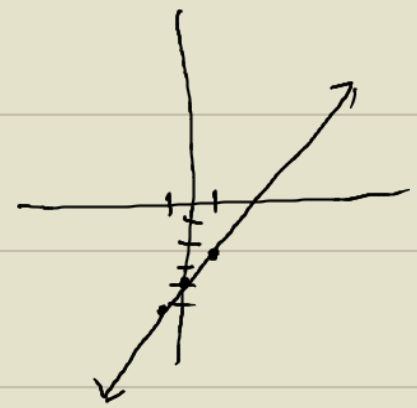
$4 - 3y = 12$

$4 - 12 = 3y$

$-8 = 3y$

$\frac{-8}{3} = \frac{3}{3}y$

$\frac{-8}{3} = y$



-3, 0, 3, 6, 9, 12, 15

6. $4x - 3y = 12$

$4x - 12 = 3y$

$\frac{4}{3}x - \frac{12}{3} = \frac{3}{3}y$

$\frac{4}{3}x - 4 = y$

X	Y
0	-4
3	0
6	4

X = 0

$\frac{4}{3}(0) - 4 = y$

$-4 = y$

X = 3

$\frac{4}{3}(3) - 4 = y$

$4 - 4 = y$

$0 = y$

X = 6

$\frac{4}{3}(6) - 4 = y$

$8 - 4 = y$

$4 = y$

