

February 24, 2017

$y = m x + b \rightarrow \text{line}$

$y = 3x - 5$

$0 = 3x - 5$
 $5 = 3x$
 $1\frac{2}{3} = \frac{5}{3} = x$

x	y
2	1
0	-5
1	-2

$y = 3x - 5$ (2,1), (0,-5), (1,-2)

Feb 24-9:00 AM

$y = -x + 4$

x	y
2	2
0	4
4	0

$0 = -x + 4$
 $-4 = -x$
 $4 = x$

y-int
x-int

Feb 24-9:22 AM

$y = x^2 + 2$

$y = (-2)^2 + 2$
 $= 4 + 2$
 $= 6$

x	y
0	2
1	3
-2	6
-3	11
2	6
3	11

$y = (-2)^2 + 2$

$y = x^2 + 2$
 $= (1)(x)^2 + 2$

Multiplicative Identity

Feb 24-9:30 AM

$y = -x^2 + 2$

$y = -(-2)^2 + 2$
 $= -(4) + 2$
 $= -4 + 2$
 $= -2$

x	y
-2	-2

$y = -x^2 + 2$
 $= (-1)x^2 + 2$
 $= (-1)(x)^2 + 2$

Feb 24-9:43 AM

$y = -2x^2 + 7x$

$(6, -29)$? no!

$(-29) = -2(6)^2 + 7(6)$
 $= -2(36) + 42$
 $= -72 + 42$
 $-29 \neq -30$

Feb 24-9:38 AM

Feb 24-9:48 AM