

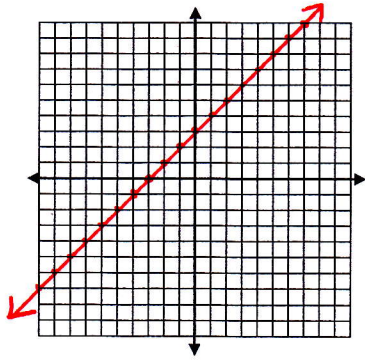
6.1 - CHANGING TO THE FORM $y = mx + b$

1. $x + y = 3$

$y = -x + 3$

$m = -1$

$b = 3$



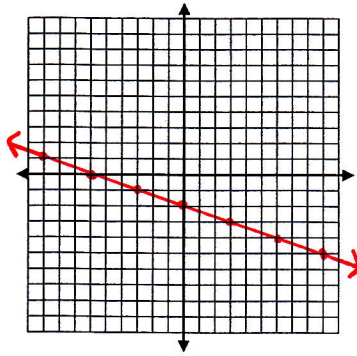
2. $3x - y = -6$

$-y = -3x - 6$

$y = 3x + 6$

$m = 3$

$b = 6$



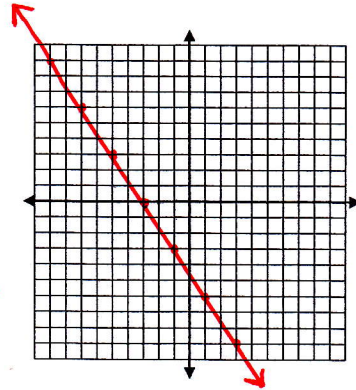
3. $2x - 3y = -9$

$\frac{-3y}{-3} = \frac{-2x - 9}{-3}$

$y = \frac{2}{3}x + 3$

$m = \frac{2}{3}$

$b = 3$

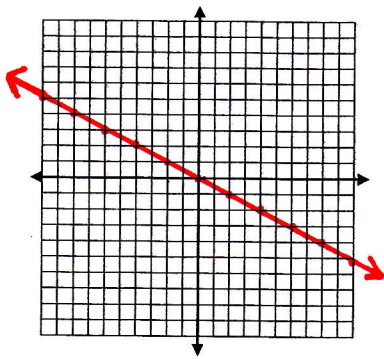


4. $3y = 6x$

$y = 2x$

$m = 2$

$b = 0$



Which ordered pairs are solutions of each equation?

5. $2x - 5y = 1$

Plug each ordered pair in!

a) $(-7, -3)$

$2(-7) - 5(-3) = 1$
 $-14 + 15 = 1$
 $1 = 1$

b) $(7, 3)$

$2(7) - 5(3) = 1$
 $14 - 15 = 1$
 $-1 \neq 1$

c) $(2, 1)$

$2(-2) - 5(-1) = 1$
 $-4 + 5 = 1$
 $1 = 1$

d) $(-2, -1)$

6. $3x + 2y = 11$

a) $(1, 3)$

$3(1) + 2(3) = 11$
 $3 + 6 = 11$
 $9 \neq 11$

b) $(3, 1)$

$3(3) + 2(1) = 11$
 $9 + 2 = 11$
 $11 = 11$

c) $(5, -2)$

$3(5) + 2(-2) = 11$
 $15 - 4 = 11$
 $11 = 11$

d) $(-1, 4)$

$3(-1) + 2(4) = 11$
 $-3 + 8 = 11$
 $5 \neq 11$