#3 $\frac{1}{3}X + \frac{1}{2}y = 2$
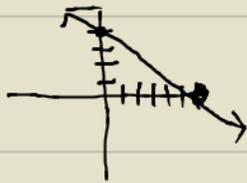
X-INT | Y-INT
$\frac{1}{3}X + \frac{1}{2}(0) = 2$ | $\frac{1}{3}(0) + \frac{1}{2}y = 2$

$\frac{1}{3}X = 2$ | $\frac{1}{2}y = 2$

$3(\frac{1}{3}X) = 3(2)$ | $2(\frac{1}{2}y) = 2(2)$

$X = 6$ | $y = 4$

$\frac{1}{3}X + \frac{1}{2}y = 2$

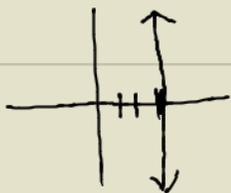$6(\frac{1}{3}X) + 6(\frac{1}{2}y) = 6(2)$

$2X + 3y = 12$

$3y = -2X + 12$

$\frac{3}{3}y = \frac{-2}{3}X + \frac{12}{3}$
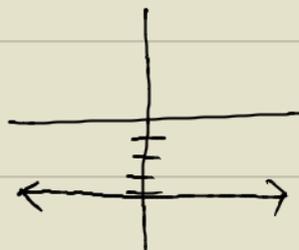
$y = -\frac{2}{3}X + 4$

#4 $X = 3$

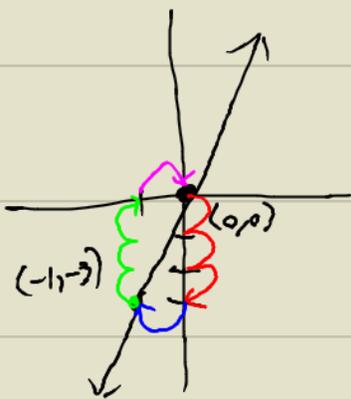#5 $4y + 5 = -11$

$4y = -11 - 5$

$4y = -16$

$\frac{4y}{4} = \frac{-16}{4}$

$y = -4$

#6

$(-1,-3)$ $(0,0)$

SLOPE

$m = \dfrac{\text{CHANGE IN } Y}{\text{CHANGE IN } X}$

POSITIVE → UP
NEGATIVE → DOWN
POSITIVE → RIGHT
NEGATIVE → LEFT

$m = \dfrac{-3}{-1}$ | $m = \dfrac{3}{1}$

$m = 3$ | $= 3$

FORMULA : GIVEN 2 POINTS
(X_1, Y_1) (X_2, Y_2)

$m = \dfrac{Y_2 - Y_1}{X_2 - X_1}$
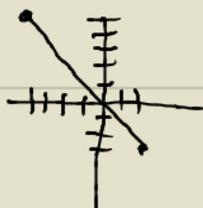
POS. SLOPE | NEG. SLOPE

$m = 0$ | m IS UNDEFINED

#7 $(2, -3)$ $(-4, 5)$
 X_1 Y_1 X_2 Y_2

$\dfrac{8}{-6}$

$m = \dfrac{(5) - (-3)}{(-4) - (2)}$

$= \dfrac{5+3}{-6}$

$\boxed{\dfrac{-4}{3}}$