

$$y = mx + b$$

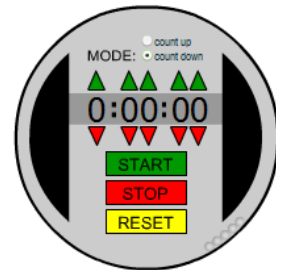


Find the **y-intercept** and the **slope** for each of the following.

You have 5 minutes.

a) $5y - 10 = 15x - 30$

b) $4(x + 3) + 2y = 11$



c) $2(y - 7) + 2 = 3(x - 4) + y$

2

y-int.: -4

slope: 3

a) $5y - 10 = 15x - 30$

$5y = 15x - 30 + 10$

$\underline{5}y = \underline{15}x - \underline{20}$

$y = 3x - 4$

3

y-int.: $\underline{-1/2}$

slope: $\underline{-2}$

b) $4(x+3)+2y=11$

$4x+12+2y=11$

$2y=11-4x-12$

$\frac{2y}{2} = \frac{-4x}{2} - \frac{1}{2}$

$y = -2x - \frac{1}{2}$

$$\text{y-int.: } \underline{\quad 0 \quad}$$

$$\text{slope: } \underline{\quad 3 \quad}$$

c)

$$2(y-7)+2=3(x-4)+y$$

$$2y-14+2=3x-12+y$$

$$2y-y=3x-12+14-2$$

$$y=3x+0$$

$$y=3x$$