



6. Identify the form each equation is in, then change to general form. (Types I/J)

Standard a)  $5x - 2y = 10$

$$\boxed{5x - 2y - 10 = 0}$$

Point-Slope b)  $\frac{5x}{5}(y+1) = \frac{2}{5}(x-3) \times 5$

$$5y + 5 = 2(x-3)$$

$$5y + 5 = 2x - 6$$

$$\frac{-5y - 5}{0} = \frac{-5x - 11}{2}$$

Slope-Intercept c)  $y = \frac{3}{4}x - 2$

$$4y = 3x - 8$$

$$\frac{-4y}{0} = \frac{-4x - 8}{3}$$

$$\boxed{0 = 3x - 4y - 8}$$

7. Determine the slope of the line with this equation:  $3x - 2y + 8 = 0$ . (Type J)

$$\frac{+2y + 8}{2} = 0$$

$$\boxed{M = \frac{3}{2}}$$

x-int @  $(x_1, 0)$  y-int @  $(0, y)$

$$\frac{3x}{2} + 4 = y$$

$$2x + 3y + 12 = 0$$

$$2(0) + 3y + 12 = 0$$

$$2x + 12 = 0$$

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

$$\frac{2x}{2} = \frac{-12}{2}$$

$$x = -6$$

$$y = 4$$

x-int @  $(-6, 0)$  y-int @  $(0, 4)$

