1) State the slope and y intercept

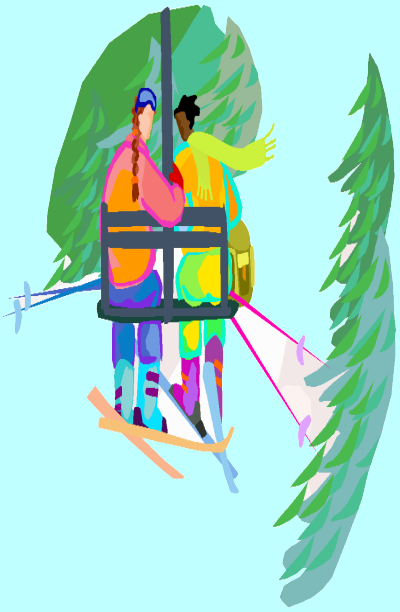
$$\frac{2y}{2} = \frac{6x}{2} + \frac{8}{2}$$

$$y = 3x + 4$$

2) State the slope and y intercept

$$y - 3 = \frac{1}{2}x + 7 + 3$$

$$y = \frac{1}{2}x + 10$$



3) State the slope and y intercept

$y = mx + b$

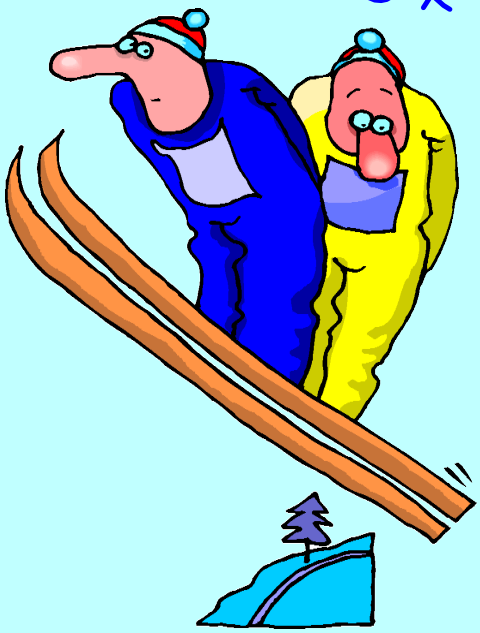
$5(x-3) = -2(y+4)$

$5x - 15 = -2y - 8$

$2y = -5x + 15 - 8$

$\frac{2y}{2} = \frac{-5x}{2} + \frac{7}{2}$

$y = \frac{-5}{2}x + \frac{7}{2}$



Find the equation of a line that has the following
(Slope Intercept Form)

a) a slope of 4 and a y intercept of -2

$y = 4x - 2$

$y = mx + b$

Find the equation of a line that has the following

(Slope Intercept Form)

b) passes through (9, 4) and (-2, 3) and has a y intercept of 2

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\frac{3-4}{-2-9} = \frac{-1}{-11} = \frac{1}{11}$$

$$y = \frac{1}{11}x + 2$$

Attachments

Point slope form.docx