4.2 Use Linear Equations in Solve! Slope-Intercept Form Solve!

Write an equation of the line in slope-intercept form that passes through the point (-1,3) and has a slope of -4. m

$$y - y_1 = m(x - x_1)$$

 $y - 3 = -4(x + 1)$
 $y - 3 = -4x - 4$
 $y = -4x - 1$

Write an equation of the line in slope-intercept form that passes through the point (6,3) and has a slope of -2.m

$$y - y_1 = m(x - x_1)$$

$$y - 3 = -2(x - 6)$$

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

$$y = -2x + 15$$

Write an equation of the line in slope-intercept form that passes through the point (-3,-11) and has a slope of $\frac{1}{2}$. $m \times \gamma$

Write an equation of the line in slope-intercept form that passes through $(\frac{9}{2},1)$ and $(-\frac{7}{2},7)$.

Your gym membership charges 535 per month after an initial membership fee. Roger has paid a total of \$250 after 6 months.

a) Write an equation that gives the total cost of a gym membership as a function of the length of membership.

$$y-y_{1} = m(x-x_{1})$$

$$y-250 = 35(x-6)$$

$$y-250 = 35x-210$$

$$y+250 = 35x+40$$

$$y = 35x+40$$

b) Find the total cost of membership after $\frac{10 \text{ months}}{1 - 4300} + 40$

A BMX race track charges a membership fee and an entry fee per race. Deandre paid a total of \$76 after 3 races. Chris paid a total of \$124 after 7 races.

a) How much does the track membership cost?

b) What is the entry fee per race?

c) Write an equation that gives the total cost as a function of the number of races entered.