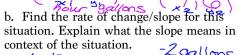
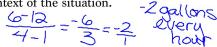
3.3.5 -Writing Equations in Slope-Intercept form given two points.

- You head out on a road trip with your mom. She fills the car up with gas before you leave. After 1 hour or driving, you have 12 gallons of gas left. After 4 hours of driving you still have 6 gallons of gas left.
- a. Write two ordered pairs given in the situation.



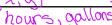


- c. Find the y-intercept ion Explain what the y-intercept means in the context of the situation. At the start

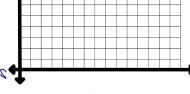
 you have

 you have

 you have d. Write an equation of the line in slope-







intercept form that represents the situation. 4 - 2x + 14

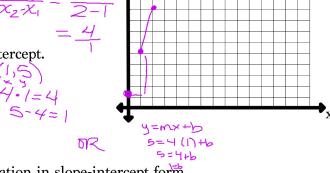
Find the equation of the line that goes through the points

(1,5) and (2,9).

a. Find the slope/rate of change

$$\frac{rise}{run} = \frac{4}{1} \quad \frac{y_2 - y_1}{x_2 - x_1} = \frac{9 - 5}{2 - 1}$$

b. Find the y-intercept.



c. Write the equation in slope-intercept form.

Y= 4x+1