Slope Intercept Form HW Day 1

- 1. Find the slope through points (-5, 14) and (-1, 2)
- 2. Find the slope through points (-5, 6) and (8, 6)

$$h = 3a + 28.6$$

- A pediatrician uses the model above to estimate the height h of a boy, in inches, in terms of the boy's age a, in years, between the ages of 2 and 5. Based on the model, what is the estimated increase, in inches, of a boy's height each year?
 - A) 3
 - B) 5.7
 - 9.5
 - D) 14.3
- 4. Which equation describes the line with a slope of 5 and y-intercept of -3?

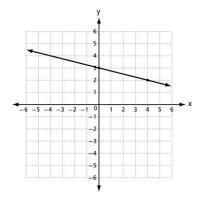
A
$$y = -3x + 5$$
 C $y = 5x - 3$

$$C_{V} = 5x - 3$$

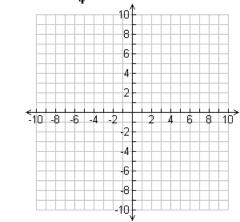
B
$$v = 3x - 5$$

B
$$y = 3x - 5$$
 D $y = 5x + 3$

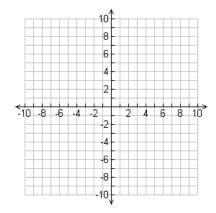
5. What is the equation in slope intercept form for the graph?



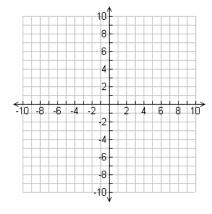
6. **Graph**: $y = \frac{1}{4}x - 6$



7. **Graph:** y = -2x + 3



8. Graph: $y = -\frac{2}{3}x + 5$

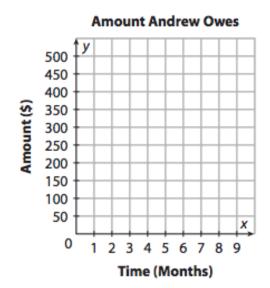


9. A local club charges an initial membership fee as well as a monthly cost. The cost is a linear function of the number of months of membership.

Write a linear function in slope intercept form to describe this situation.

Membership Cost	
Time (months)	Cost (8)
0	100
3	277
6	454

- 10. Andrew wants to buy a smart phone that costs \$500. His parents will pay for the phone then Andrew will pay them \$50 each month until the entire amount is repaid.
- a. Write a linear function in slope intercept form to describe this situation.
- b. What does the slope represent? What does the y intercept represent?



c. Graph this function on the graph to the right.

CHALLENGE: Write an equation of a line in slope intercept form that passes through the points (3, 4) and (7, 8)