Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Math 8: Slope-Intercept Form

*Directions: Fill in the blanks below as you watch the video.*

Coco’s Carwash

|  |  |  |
| --- | --- | --- |
| # of cars |  | cost |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| Equation:  y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Based on the graph, what is  the slope? \_\_\_\_\_\_\_  At what number does the line  cross the y-axis in the graph?  \_\_\_\_\_\_\_ | Graph: |  |

New Idea: y-intercept

The y-intercept is the \_\_\_\_\_\_ where the \_\_\_\_\_\_\_ crosses the \_\_\_\_\_\_\_\_\_\_\_\_.

How are the slope and y-intercept related to the equation of

Coco’s Carwash’s new business plan?

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Slope = \_\_\_\_\_\_\_ y-Intercept = \_\_\_\_\_

New Idea: Slope-Intercept Form

y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What does “m” mean? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What does “b” mean? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Super-Duper Important!

Slope-Intercept Form:

y = mx + b

\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Identify the slope and y-intercept from each equation below.

1. y = 2x - 1 slope = \_\_\_\_\_ y-intercept = \_\_\_\_\_
2. y = -1/3 x slope = \_\_\_\_\_ y-intercept = \_\_\_\_\_
3. y = x + 4 slope = \_\_\_\_\_ y-intercept = \_\_\_\_\_
4. y = -6x - 5 slope = \_\_\_\_\_ y-intercept = \_\_\_\_\_