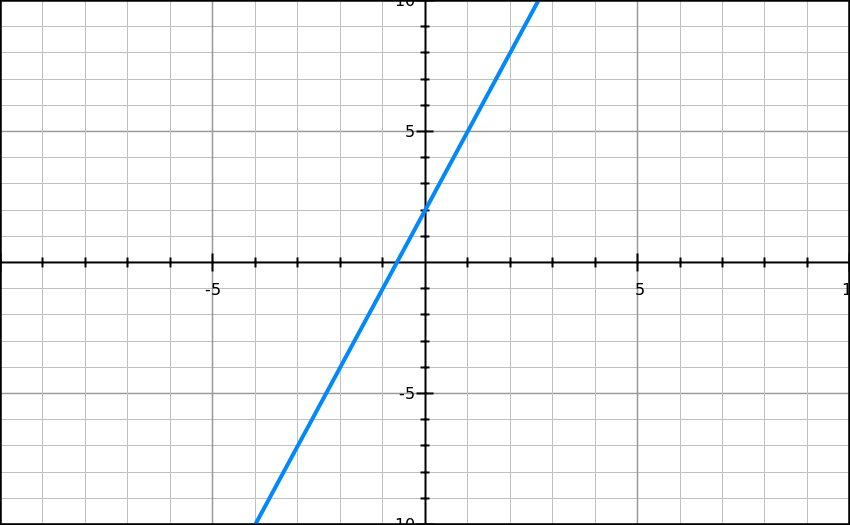
Week of Monday, November 19th - Tuesday, November 20th Guided Notes: **Slope Intercept Form**

**Monday, November 19th**

**> Do Now**

1. Write BOTH formulas for slope.
2. Find the slope of a line that passes through (-10, 8) and (15, 7).
3. What is the slope of the given graph?

**> Slope Intercept Form**

* Each function has an equation that corresponds to it.
* If the equation is in the correct form, it can indicate a lot about the line.
* The correct form for an equation of a line is called **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
  + Written as **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
    - Where **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
      * **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
    - Where **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
      * The point on the graph **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
    - x and y refer to coordinates that fall on the line.

**> Slope Intercept Form Examples**

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| --- |
| 1) Identify the slope and y –intercept. y = 3x – 7 |
| 2) Identify the slope and y –intercept. y = ½ x + 2 |
| 3) Identify the slope and y –intercept. y = 4 x - 5 |
| 4) Identify the slope and y –intercept. y = ¾x - 1 |
| 5) Identify the slope and y –intercept. y = -5x + 2 |
| 6) Identify the slope and y –intercept. y = -9x + 10 |
| 7) Identify the slope and y –intercept. y = -7x + 4 |

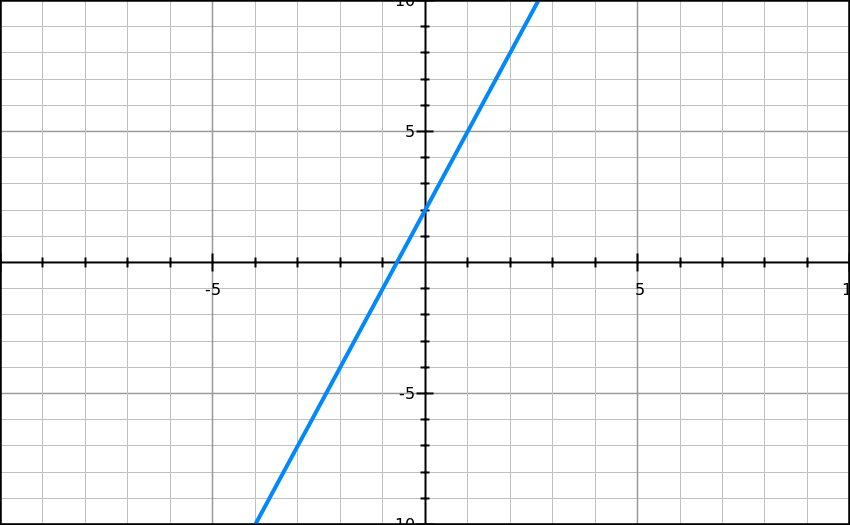
Writing an Equation from a Graph:

* The following steps will help you write an equation from a graph:
  + **Step 1:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + **Step 2:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + **Step 3:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** (y = mx + b).

**> Writing an Equation from a Graph Examples:** Write the equation for the graphs in slope intercept form.

|  |  |
| --- | --- |
| 8.  C:\Users\IT\AppData\Local\Temp\graph_20111113_133247.png | 9.  C:\Users\IT\AppData\Local\Temp\graph_20111113_133524.png |
| 10. C:\Users\IT\AppData\Local\Temp\graph_20111113_135115.png | 11.  C:\Users\IT\AppData\Local\Temp\graph_20111113_135856.png |
| 12.  C:\Users\IT\AppData\Local\Temp\graph_20111113_140134.png | 13.  C:\Users\IT\AppData\Local\Temp\graph_20111113_140459.png |
| 14.  C:\Users\IT\AppData\Local\Temp\graph_20111113_140934.png | 15.  C:\Users\IT\AppData\Local\Temp\graph_20111113_141228.png |

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**Tuesday, November 20th**

**> Do Now**

1. Identify the slope and y-intercept of y = ¾ x – 6
2. Identify the slope and y-intercept and write the equation in slope intercept form.

* The following steps will help you write an equation from a graph:
  + **Step 1:** Identify the y-intercept.
  + **Step 2:** Identify the slope.
  + **Step 3:** Sub the y-intercept and slope into the slope intercept form equation (y = mx + b).

**Example Problems:** Write the equation for the graphs in slope intercept form.

|  |  |
| --- | --- |
| 1.  C:\Users\IT\AppData\Local\Temp\graph_20111113_141548.png | 2.  **C:\Users\IT\AppData\Local\Temp\graph_20111113_141825.png** |
| 3.  C:\Users\IT\AppData\Local\Temp\graph_20111113_142154.png | 4.  C:\Users\IT\AppData\Local\Temp\graph_20111113_142454.png |
| 5.  C:\Users\IT\AppData\Local\Temp\graph_20111113_142700.png | 6.  C:\Users\IT\AppData\Local\Temp\graph_20111113_142855.png |
| 7.  32.tiff | 8.  33.tiff |
| 9.  34.tiff | 10.  35.tiff |
| 11.  36.tiff | 12.  41.tiff |