

**Grid Lines:** The vertical and \_\_\_\_\_ lines which form the grid on graph paper.

**Grid Point:** Any point of \_\_\_\_\_ of two \_\_\_\_\_ on graph paper.

**Slope:** A number which represents the \_\_\_\_\_ or \_\_\_\_\_ of a line.

AMOUNT OF SLOPE:

**Moderate Slope:** .....makes an angle of \_\_\_\_\_ with the horizontal.

**Gentle Slope:** .....makes an angle between \_\_\_\_\_ and \_\_\_\_\_ with the horizontal.

**Steep Slope:** .....makes an angle between \_\_\_\_\_ and \_\_\_\_\_ with the horizontal.

**Zero slope:** .....makes an angle of \_\_\_\_\_ with the horizontal.

DIRECTION OF SLOPE: Lines may be *vertical*, *horizontal*, *uphill* or *downhill* in direction.

**Uphill:** Ascending, \_\_\_\_\_ or \_\_\_\_\_ to the right.

**Downhill:** \_\_\_\_\_, \_\_\_\_\_ or \_\_\_\_\_ to the right.

Steps For Finding A Numerical Value For Slope:

1. Find two **grid points** on the line and mark them with dots.
2. Start at the left grid point.
3. Use a ruler to draw a horizontal line to the right from this point until you are vertically above or below the second grid point. This horizontal line is the **run**.
4. Now draw a vertical line from the right end of the **run** either up or down to connect to the second grid point. This vertical line is the **rise**.
5. Count the graph squares to determine the length of the **run** and the **rise**.
6. The **run** is always positive.
7. The **rise** is positive if it is going upwards from the **run**, or is negative if the **rise** is going downwards from the **run**.
8. 

$SLOPE = \frac{rise}{run}$
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9. Reduce the answer for slope to a fraction in lowest terms – avoid decimals or mixed numbers.

SUMMARY:

**Uphill Slope:** .....corresponds to slope values which are \_\_\_\_\_ .

**Downhill Slope:** .....corresponds to slope values which are \_\_\_\_\_ .

**Moderate Slope:** .....corresponds to a slope value of \_\_\_\_\_ or \_\_\_\_\_ .

**Gentle Slope:** .....corresponds to slope values which are \_\_\_\_\_ than \_\_\_\_\_ .

**Steep Slope:** .....corresponds to slope values which are \_\_\_\_\_ than \_\_\_\_\_ .

**Zero slope:** .....corresponds to a slope value of \_\_\_\_\_ .

Graph # \_\_\_\_\_ has the **steepest slope** of all because its slope value is \_\_\_\_\_ .

Graph # \_\_\_\_\_ has the **gentlest slope** of all because its slope value is \_\_\_\_\_ .

# Mathematics 9

## The Slope of a Line

Date: \_\_\_\_\_

<p>1. amount of slope: <input type="text"/> direction of slope: <input type="text"/> slope = <input type="text"/></p>	<p>2. amount of slope: <input type="text"/> direction of slope: <input type="text"/> slope = <input type="text"/></p>	<p>3. amount of slope: <input type="text"/> direction of slope: <input type="text"/> slope = <input type="text"/></p>
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<p>10. amount of slope: <input type="text"/> direction of slope: <input type="text"/> slope = <input type="text"/></p>	<p>11. amount of slope: <input type="text"/> direction of slope: <input type="text"/> slope = <input type="text"/></p>	<p>12. amount of slope: <input type="text"/> direction of slope: <input type="text"/> slope = <input type="text"/></p>