Grid Lines: The vertical and horizontal_lines which form the grid on graph paper.
Grid Point: Any point of_intersection of two dimensional _plane on graph paper.
Slope: A number which represents the steepness or tilt/incline_of a line.

## AMOUNT OF SLOPE:

Moderate Slope: ............makes an angle of $45^{\circ}$ with the horizontal.
Gentle Slope: $\qquad$ .makes an angle between $\qquad$ and $45^{\circ}$ with the horizontal.
Steep Slope: $\qquad$ makes an angle between $45^{\circ}$ and $\qquad$ with the horizontal.

Zero slope: $\qquad$ makes an angle of $\qquad$ with the horizontal.

DIRECTION OF SLOPE: Lines many be vertical, horizontal, uphill or downhill in direction.
Uphill: Ascending, increasing_or_rising__ to the right.
Downhill: $\qquad$ de scending , decreasing or $\qquad$ 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. 

$$
S L O P E=\frac{\text { rise }}{\text { run }}
$$

9. Reduce the answer for slope to a fraction in lowest terms - avoid decimals or mixed numbers.

SUMMARY:
Uphill Slope: $\qquad$ .corresponds to slope values which are $\qquad$ positive
$\qquad$ negative or half. Lay
Downhill Slope: $\qquad$ .corresponds to slope values which are .
Moderate Slope: $\qquad$ corresponds to a slope value of $45^{\circ}$
Gentle Slope: $\qquad$ corresponds to slope values which are $\qquad$ than $45^{\circ}$.

Steep Slope: $\qquad$ .corresponds to slope values which are $\qquad$ than $45^{\circ}$.
Zero slope: $\qquad$ .corresponds to a slope value of $\qquad$ .
Graph \# 1) has the steepest slope of all because its slope value is $\qquad$ .
Graph \# 7 has the gentlest slope of all because its slope value is $\qquad$ .


1. STEEP | amount of slope: | $\begin{array}{l}\text { direction of slope: } \\ (+)\end{array}$ | $\begin{array}{l}\text { slope }= \\ 2 \\ 1\end{array}$ |
| :---: | :---: | :--- |



| 4. | amount of slope: | direction of slope: | $\begin{array}{l}\text { slope } \\ \text { STEEP }\end{array}$ |
| :--- | :--- | :--- | :--- |
|  | UP $(t)$ | $\frac{5}{2}=2.5$ |  |

7. | amountof slope: | direction of slope: |
| :--- | :--- | :--- | :--- |
| STRONG | DOWN | \(\begin{aligned} \& slope= <br>

\& \frac{-1}{6}=0.17\end{aligned}\)


10. | amount of slope: |
| :--- | :--- | :--- | :--- |
| STEEP |\(\quad \begin{aligned} \& diecciono of slope: <br>

\& DOWN\end{aligned} $$
\begin{aligned} & \text { slope }= \\
& \frac{-3}{4}=-0.75\end{aligned}
$$\)





|  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

5. $\begin{aligned} & \text { amount of lope } \\ & \text { STEEP }\end{aligned}$

| direction of stope: | slope $=$ |
| :---: | :--- |
| $U P(t)$ | $\frac{2}{2}=1$ |


8. STEEP

| direction of slope: | slope $=$ |
| :--- | :--- |
| Dawn | $\frac{-1}{T}=-1$ |


11.

| amount of stope: |  |  |
| :--- | :--- | :--- |
| STEEP | direction of slope: | $\begin{array}{l}\text { slope }= \\ \text { DOWN }\end{array}$ |
| $\frac{-7}{1}=-7$ |  |  |

amountof slope:
9. STEEP
Down
slope $=$

12.
STEEP
direction of slope:
$\stackrel{9}{2}=4.5$


