Unit 3 Notes: "Slope and Similar Triangles"

2) Make 5 stair steps of different sizes that you can for the line with the point being at the bottom. Find the slope of each stair-step using the rise over run and then simplify.


1) $\frac{\frac{1}{2}}{2}=\frac{\frac{1}{2}}{2}$
2) $\frac{\frac{2}{4}}{\frac{3}{6}}=\frac{\frac{1}{2}}{\frac{1}{2}}$
3) 



What is true about the ratios?

$$
\frac{A 1\left(\text { slopes }=\frac{1}{2}\right.}{(\text { simplified })}
$$



Find the slope between the given points.
5) $(7,-2)$ and $(9,-1)$
$m=$ $\qquad$ 6) $\begin{array}{cc}(4,2) \text { and } & (-2,4) \\ K_{1} y_{1} & K_{2} y_{2}\end{array}$
$m=$ $\qquad$
slope $=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}$
7) $(-1,10)$ and $(-4,8)$
$x_{1} y_{1} \quad x_{2} y_{2}$
$m=$ $\qquad$
8) $(-1,8)$ and $(-7,2)$
$m=$ $\qquad$
$x_{1} y_{1} \quad x_{2} y_{2}$
9) $(-9,4)$ and $(-9,1)$
$m=$ $\qquad$
$x_{1} y_{1} \quad x_{2} y_{2}$
. .
10) $(3,3)$ and $(-6,6)$
$x_{1} y_{1} \quad x_{2} y_{2}$
$\mathrm{m}=$ $\qquad$

Find the slope contained in the following $T$-tables.

## 11)

$m=$ $\qquad$
12)

14)
$\qquad$
13)

$m=$
$\square$

| $x$ | $v$ |
| :--- | :--- | $\qquad$ .

