

Last two ramps..
Horizontal Ramp

slope $=\frac{0}{12}=0$


Vertical Ramp
12 m


$$
\begin{aligned}
\text { slope }=\frac{12}{0}= & \varnothing \\
& =\text { DNE } \\
& \text { undefined }
\end{aligned}
$$

Any vertical line has an undefined slope
ex) Find the slope of each segment:


$$
\begin{aligned}
& \text { slope } A=\frac{3}{2} \quad \text { slope } B=\frac{2}{4}=\frac{1}{2} \\
& \text { slope } C=\frac{-4}{1}=-4 \quad \text { slope } D=\frac{-1}{4}
\end{aligned}
$$

ex) Find the slope of each line: $\quad$ slope $F=\frac{1}{2}$

a) a slope of $2 / 3 \downarrow 2 \uparrow$
b) a slope of $-3 / 4 \stackrel{\uparrow}{\leftarrow}-\frac{3}{4} \downarrow$



Ex) Find slope of:
a) $A(4,5)$ and $B(-3,-1)$

$$
\begin{array}{|c|}
\hline \text { slope }=\frac{\text { rise }}{\text { run }}=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}, ~ \\
\hline
\end{array}
$$

$$
\begin{array}{r}
x_{1} y_{1} \quad x_{2} y_{2} \\
m=\frac{-1-5}{-3-4} \\
=\frac{-6}{-7}=\frac{6}{7}
\end{array}
$$

b) $C(10,6)$ and $D(6,4)$

$$
x_{2} y_{2} \quad x_{1} y_{1}
$$

$$
\begin{aligned}
m & =\frac{6-4}{10-6} & m & =\frac{4-6}{6-10} \\
& =\frac{2}{4}=\frac{1}{2} & & =\frac{-2}{-4}
\end{aligned}
$$

$$
\begin{aligned}
m & =\frac{4-6}{6-10} \\
& =\frac{-2}{-4} \quad \text { Purple US }
\end{aligned}
$$

