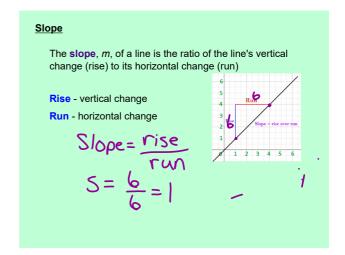
## 8.4 The Slope of a Line

Students will be able to find and interpret slopes of lines.

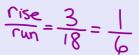


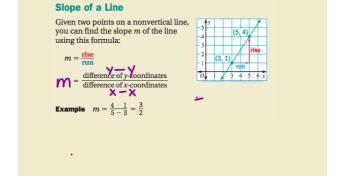
A wakeboard ramp has a rise of 6 feet and a run of 10 feet. Find its slope.

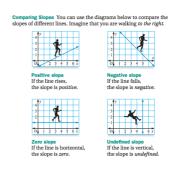
slope = 
$$\frac{\text{rise}}{\text{run}} = \frac{6}{10}$$



A ramp is 18 feet along the bottom 3 feet high. Find its slope.

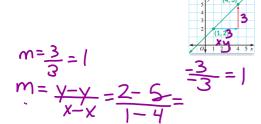






## 8.4 The Slope of a Line.notebook

Find the slope of the line shown.



Find the slope of the line shown.

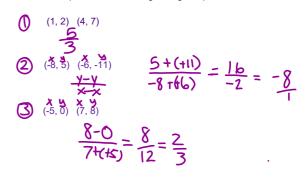


Find the slope of the line shown.

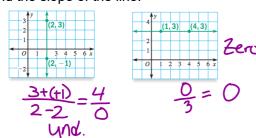
$$M = \frac{\text{rise}}{\text{rwn}} = \frac{-1}{3}$$

$$M = \frac{-2 + (+1)}{3 - 0} = \frac{-1}{3}$$

Find the slope of the line through the given points.



Find the slope of the line.



Find the slope of the line through the given points. Tell whether the slope is *positive*, *negative*, *zero*, or *undefined* (-12, -7) (4, 5) (6, 3) (6, -1)

The graph shows the number of parts assembled by a factory worker as a function of time. Find her assembly speed, in parts per hour.



The graph shows the distance traveled by a wakeboarder as a function of time. The slope of the line gives the wakeboarder's speed, which is the *rate of change* in distance traveled with respect to time. Find the wakeboarder's speed.



## 8.4 Homework

Pg. 423-425

#4 - 6 all, 8-16 (even), 17-21 all, 22-30 (4th), 35-37 all, 50, 52, 53