## Wares - up 11-1

## 1. Find the slope of the lines below.


2. The table shows the number of bikes made by a company for certain years. Find the rate of change for each time period. During which time period did the number of bikes increase at the fastest rate?

| Year | 1 | 2 | 5 | 7 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Bikes | 32 | 35 | 47 | 47 | 61 |

1. Find the slope of the lines below.


Warm-up 11-1

2. The table shows the number of bikes made by a company for certain years. Find the rate of change for each time period. During which time period did the number of bikes increase at the fastest rate?

13. The table shows the distance of an elevator from the ground floor at different times. Graph the data and show the rates of change.

| Time (s) | 0 | 15 | 23 | 30 | 35 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Distance (m) | 30 | 70 | 0 | 45 | 60 |

13. The table shows the distance of an elevator from the ground floor at different times. Graph the data and show the rategof change.

| Time $(\mathrm{s})$ | 0 | 15 | 23 | 30 | 35 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Distance $(\mathrm{m})$ | 30 | 70 | 0 | 45 | 60 |

$$
\begin{array}{lll}
\frac{40}{15}=\frac{8}{3} \mathrm{~m} / \mathrm{s} & \frac{45}{7} \mathrm{~m} / \mathrm{s} & 10203040 \text { ci c io } \\
\frac{-70}{8}=-\frac{35}{4} \mathrm{~m} / \mathrm{s} & \frac{15}{5}=\frac{3 \mathrm{l}}{1} \mathrm{~m} / \mathrm{s} & \frac{70-30}{15-0}=\frac{40}{15}
\end{array}
$$



## What do you notice and wonder about these memes?










# What do you notice and wonder about the cover of your Algebra 1 book? 

Notice:

- the book is red
- it says "Algebra 1"
- it looks like a centipede on the front
- it looks like a shell on the front
- it looks like a staircase of the front
- there is a dolphin
- it is common core
- Holt wrote it
- it fades from red to black
- it is the teacher's edition
- ...

Wonder:

- who chose the cover
- what is on the back of the book
- what is inside the book
- who made algebra
- why is the cover the way it is
- why is there a dolphin
- who is Holt
- what is common core
- what kind of problems are inside
- why do we do algebra
- ...


# Inquiry Discovery Activity 

I notice... I wonder...
Name $\qquad$

$$
\begin{aligned}
& (1,5) ;(2,7) \\
& (y-5)=2(x-1) \\
& y=2 x+3
\end{aligned}
$$



$$
\begin{aligned}
& (2,-3) ;(4,3) \\
& (y+3)=3(x-2) \\
& y=3 x-9
\end{aligned}
$$



## Homework <br> pg. 272 \#1-5 (odd) pg. 279 \#1-5 (odd)

