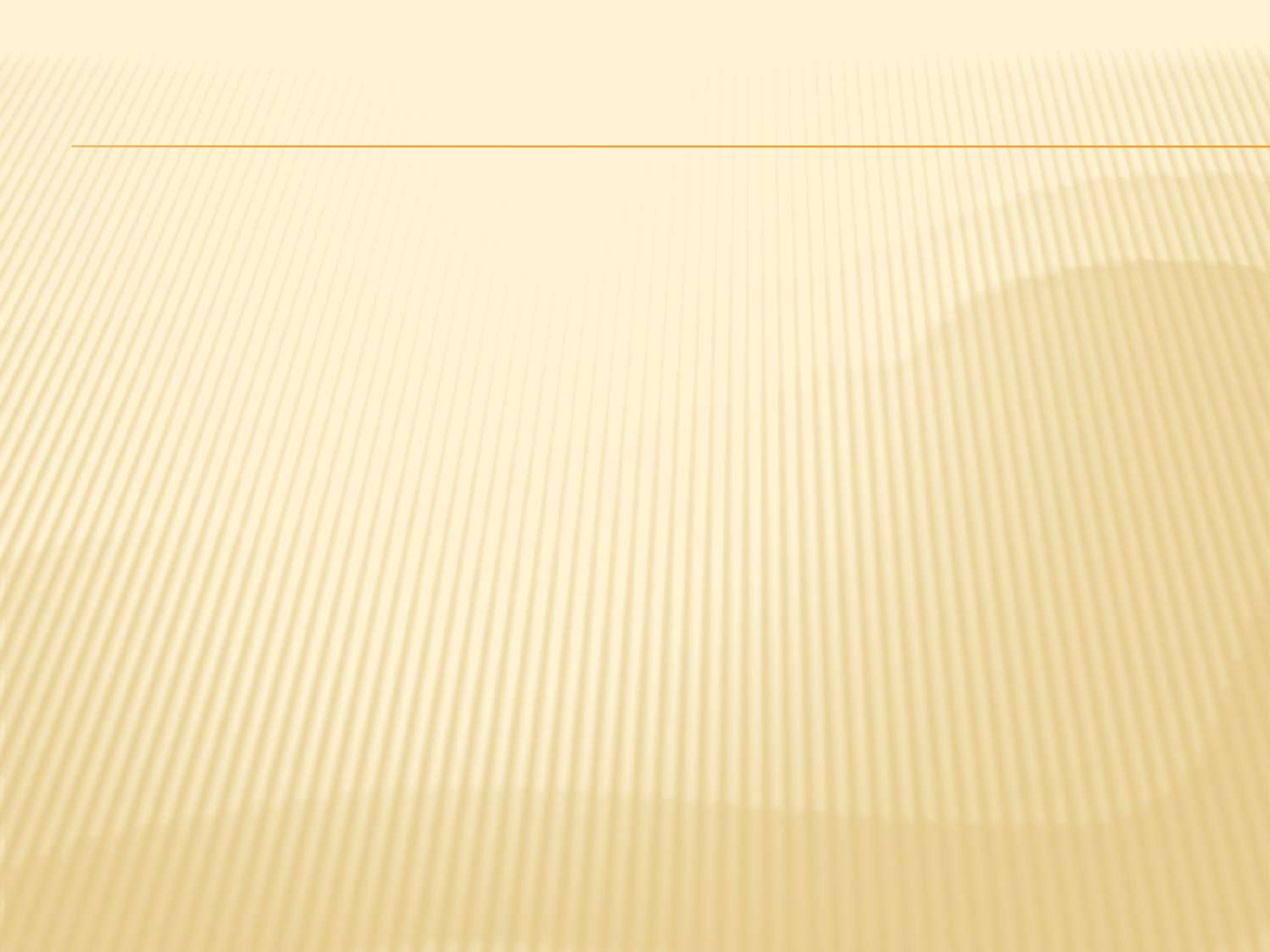


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# ✘ Unit 5 Pre-Test



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# Slope

constant rate of change

$$\text{Slope} = m = \frac{\text{Rise}}{\text{Run}}$$

# TYPES OF SLOPE

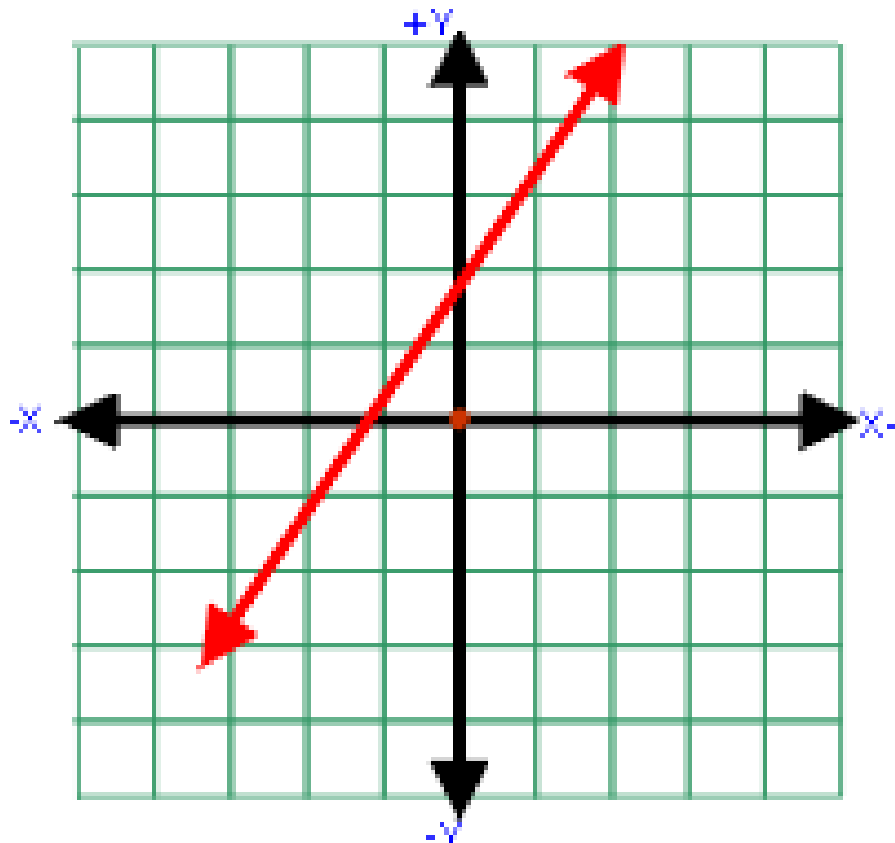
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- ✘ Positive slope
- ✘ Negative slope
- ✘ Zero slope
- ✘ Undefined slope



# POSITIVE SLOPE AS A GRAPH

✘ The line rises  
from left to  
right.



**Positive Slope**

# POSITIVE SLOPE

✘ Each year, Tina grows 4 inches.

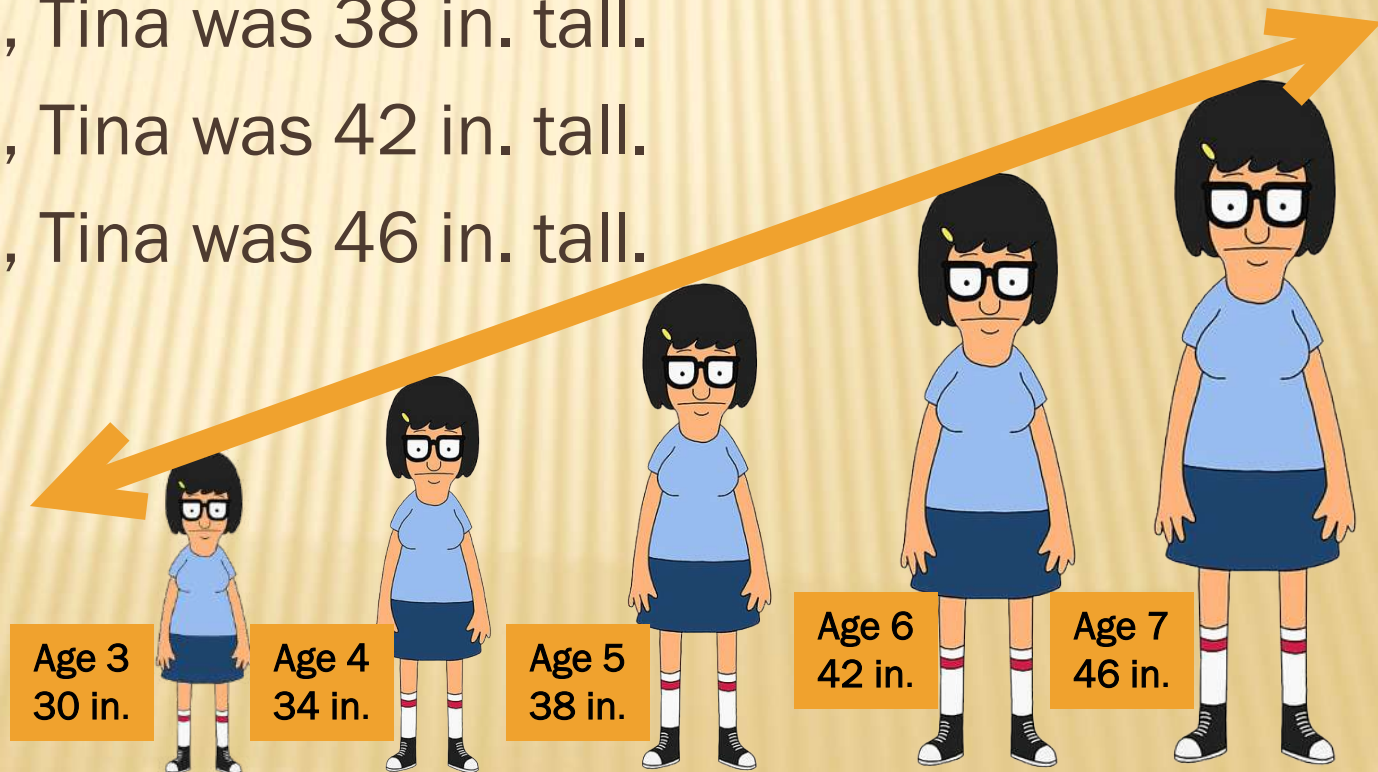
+ At age 3, Tina was 30 in. tall.

+ At age 4, Tina was 34 in. tall.

+ At age 5, Tina was 38 in. tall.

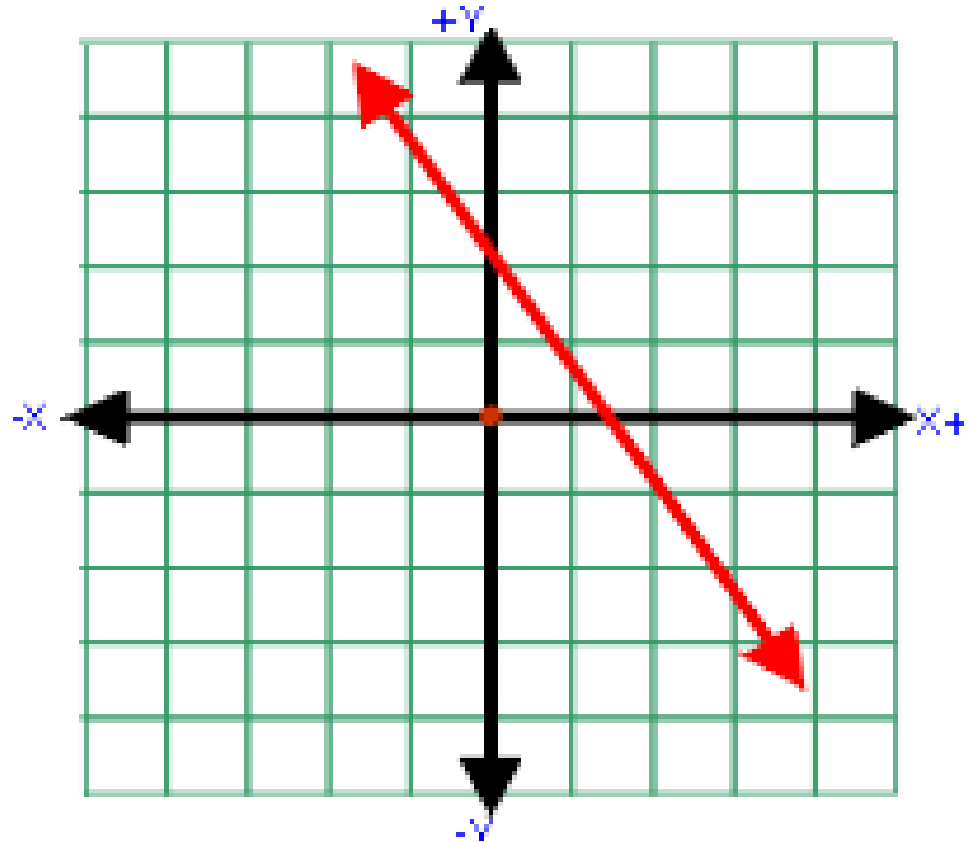
+ At age 6, Tina was 42 in. tall.

+ At age 7, Tina was 46 in. tall.



# NEGATIVE SLOPE AS A GRAPH

✘ The line falls  
from left to  
right.



**Negative Slope**

# NEGATIVE SLOPE

✘ Each year, Tina shrinks 4 inches.

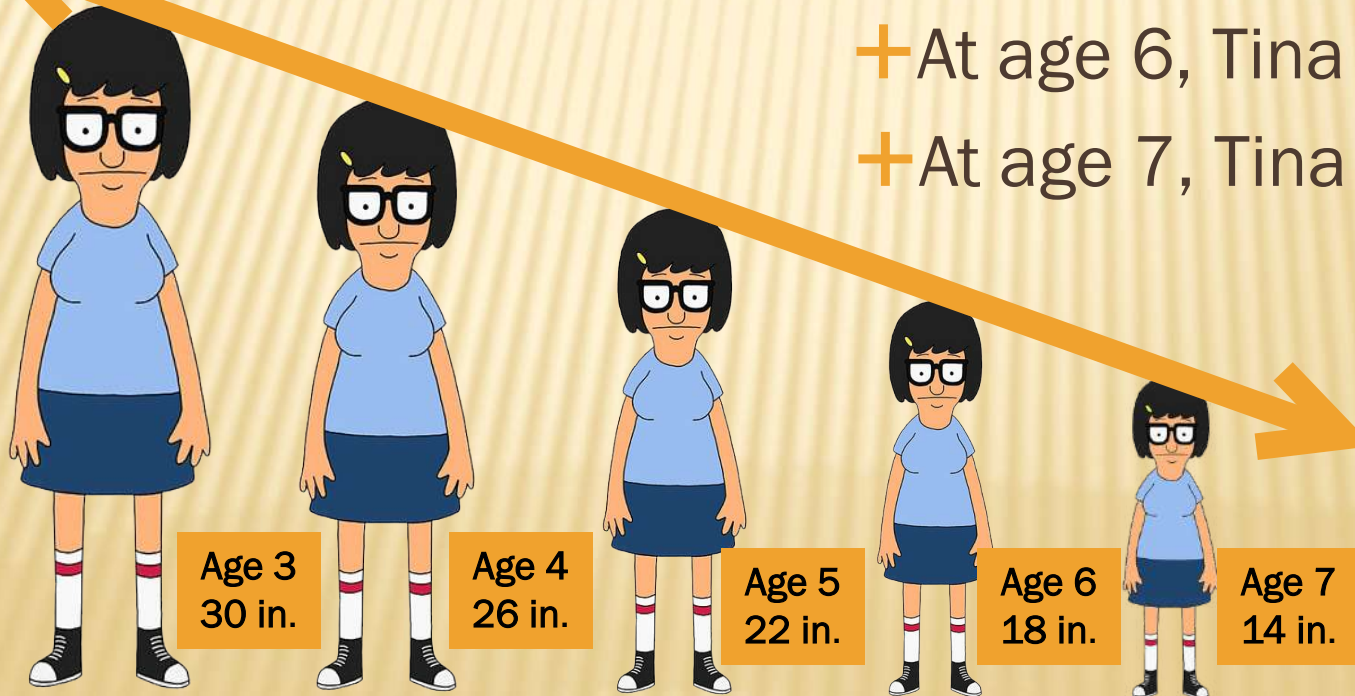
+ At age 3, Tina was 30 in. tall.

+ At age 4, Tina was 26 in. tall.

+ At age 5, Tina was 22 in. tall.

+ At age 6, Tina was 18 in. tall.

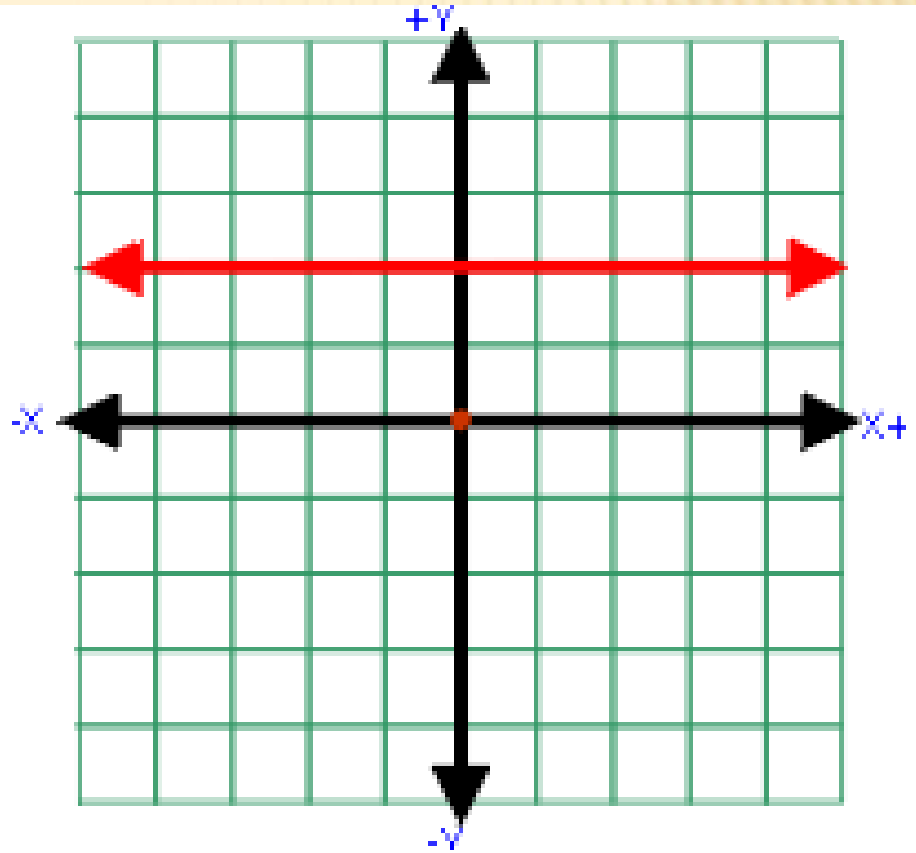
+ At age 7, Tina was 14 in. tall.





# ZERO SLOPE AS A GRAPH

✘ The line is horizontal.



**Zero Slope**

# ZERO SLOPE

✘ Each year, Tina does not grow at all.

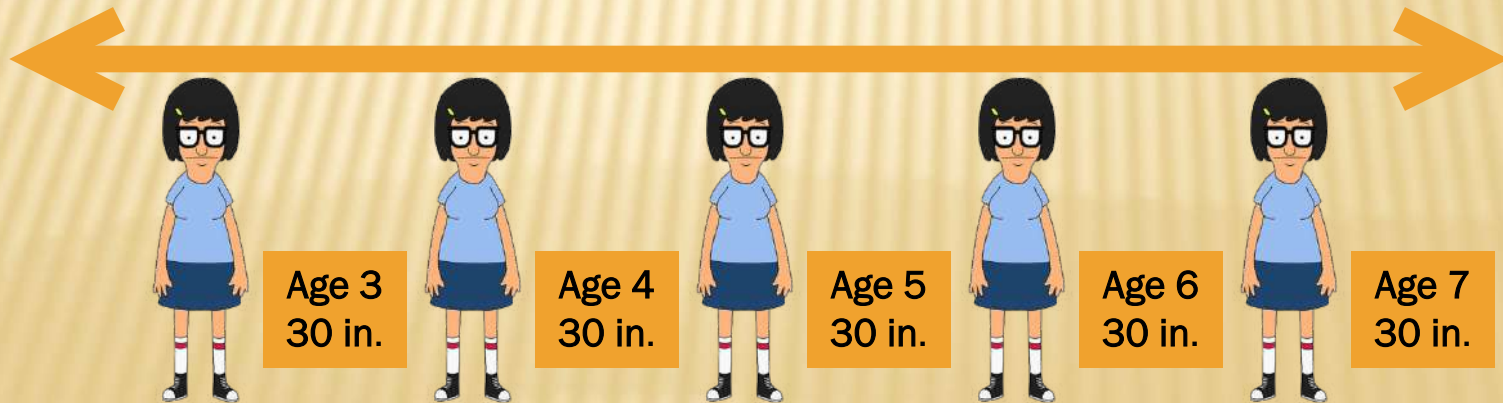
+ At age 3, Tina was 30 in. tall.

+ At age 4, Tina was 30 in. tall.

+ At age 5, Tina was 30 in. tall.

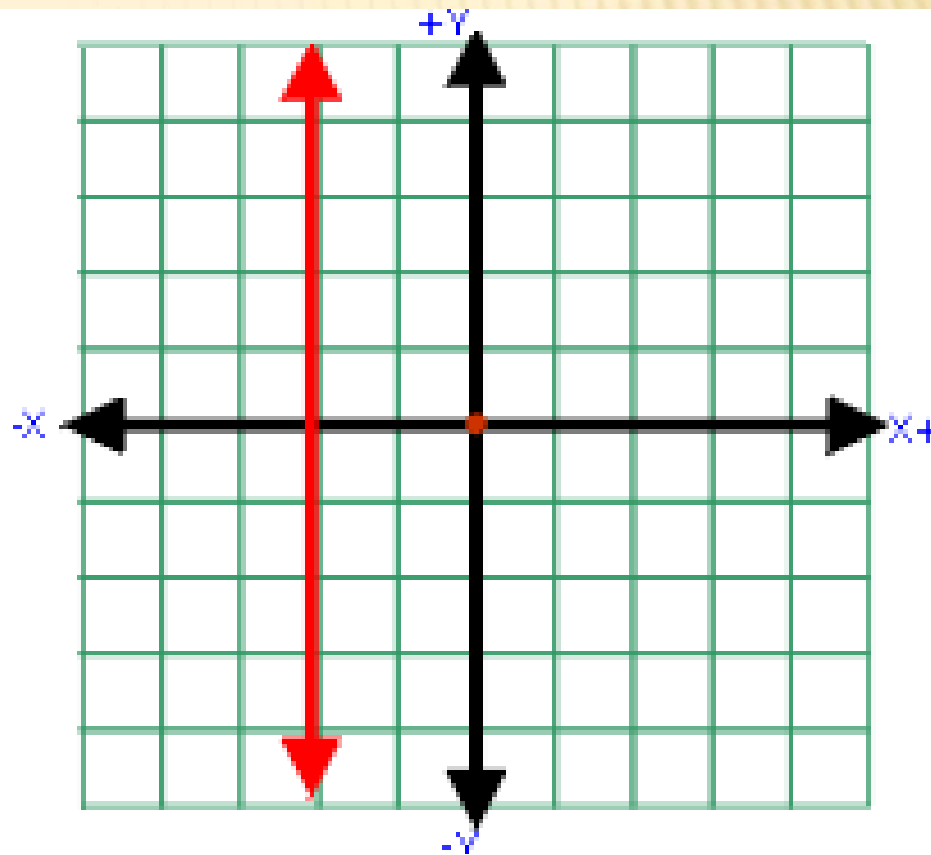
+ At age 6, Tina was 30 in. tall.

+ At age 7, Tina was 30 in. tall.



# UNDEFINED SLOPE AS A GRAPH

✘ The line is vertical.



**Undefined Slope**

# UNDEFINED SLOPE

✘ At age 3, Tina had a growth spurt and grew 16 inches all at once.

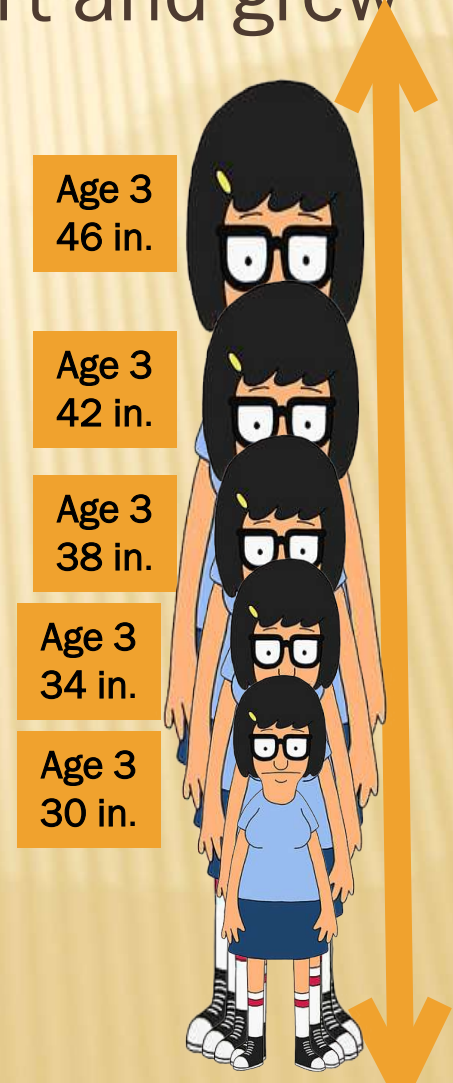
+ At age 3, Tina was 30 in. tall.

+ At age 3, Tina was 34 in. tall.

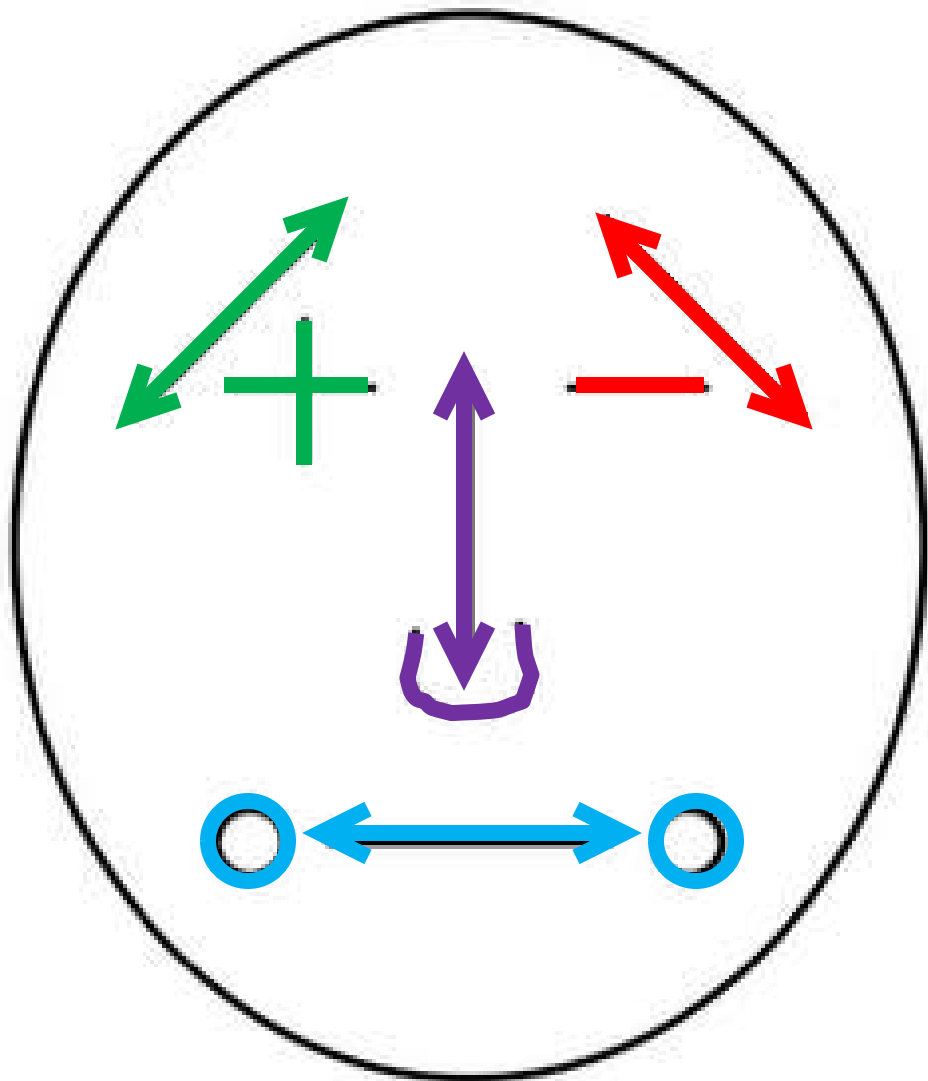
+ At age 3, Tina was 38 in. tall.

+ At age 3, Tina was 42 in. tall.

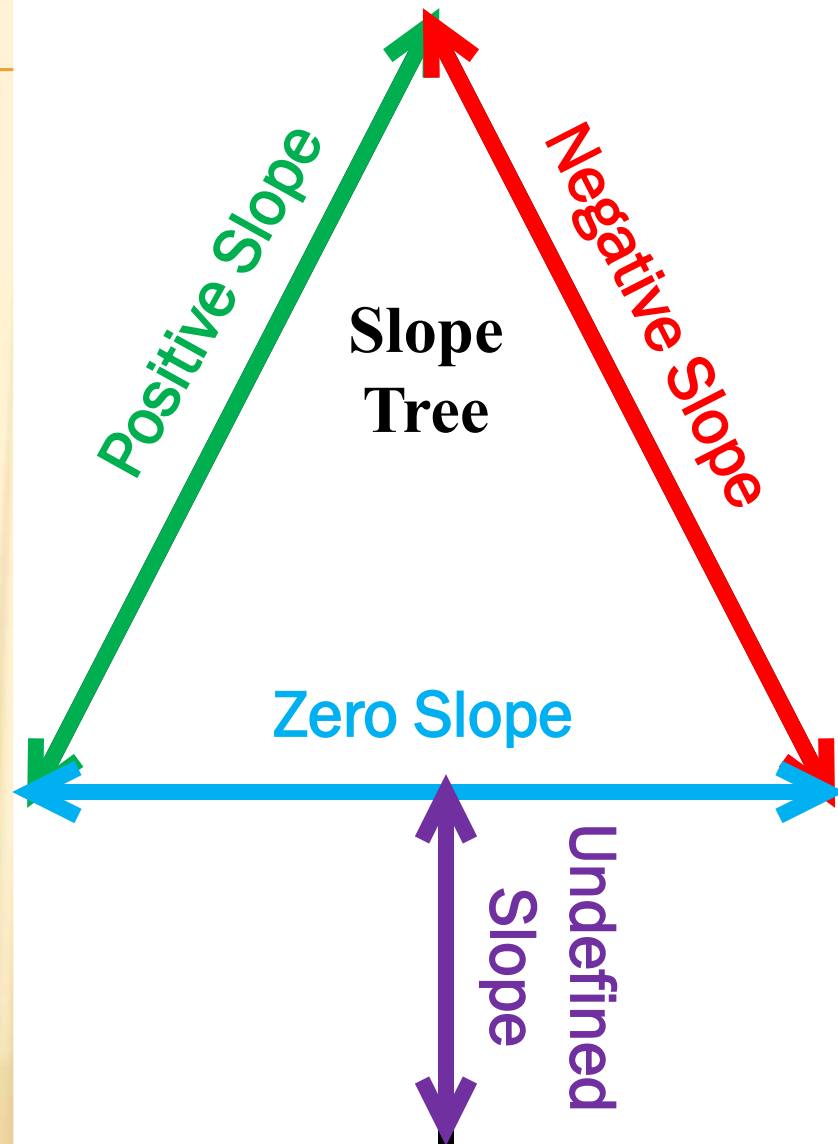
+ At age 3, Tina was 46 in. tall.







**MR. SLOPE GUY**



# FOLDABLES AND NOTE TAKING TIME!!!!

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## CALCULATE SLOPE GIVEN THE RISE AND RUN

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$$\times \text{Slope} = m = \frac{\text{Rise (or fall)}}{\text{Run}}$$

Find the slope given the rise and run.

1) Rise = 2

Run = -9

2) Rise = 3

Run = 6

3) Rise = -1

Run = 5