215 HW TI Graphing (24pts)

To receive credit:
- Write all answers in your bound journal.
- Use your TI-84 to graph the data
- Solve for the equation for the line
- What is the slope equal to?
- What is the R^2 value and why is it important?
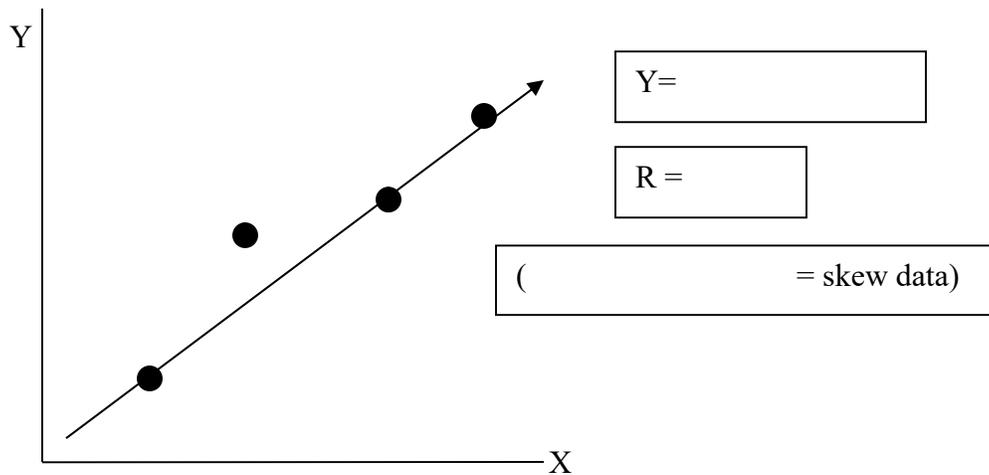- What dot (X, Y components) are not on the line (skewed data)

Time = dots * 0.0167
Average velocity = distance/time
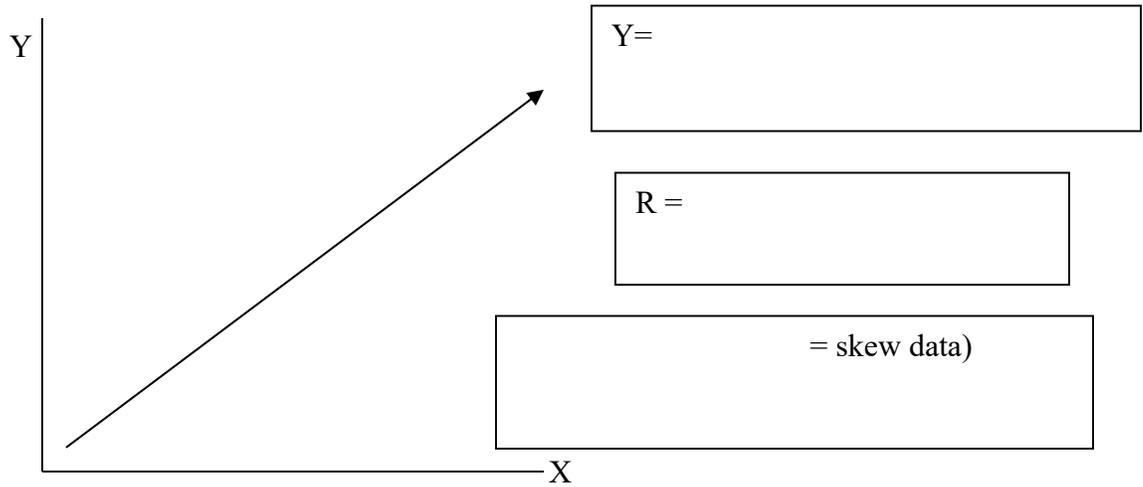Final speed = 2 * V_{avg}

Trial 1: from lab bench (EXAMPLE)

Dot position	distance traveled from start (meters)	time transpired (seconds)	average velocity (m/s)	final speed (m/s)
5	0.0212			
10	0.110			
15	0.191			
20	0.339			

Y=

R =

(= skew data)

Trial 1:

Dot position	distance traveled from start (meters)	time transpired (seconds)	average velocity (m/s)	final speed (m/s)	
5	0.0100				
10	0.0700				
15	0.120				
20	0.330				

Y

Y=

R =

= skew data)

X
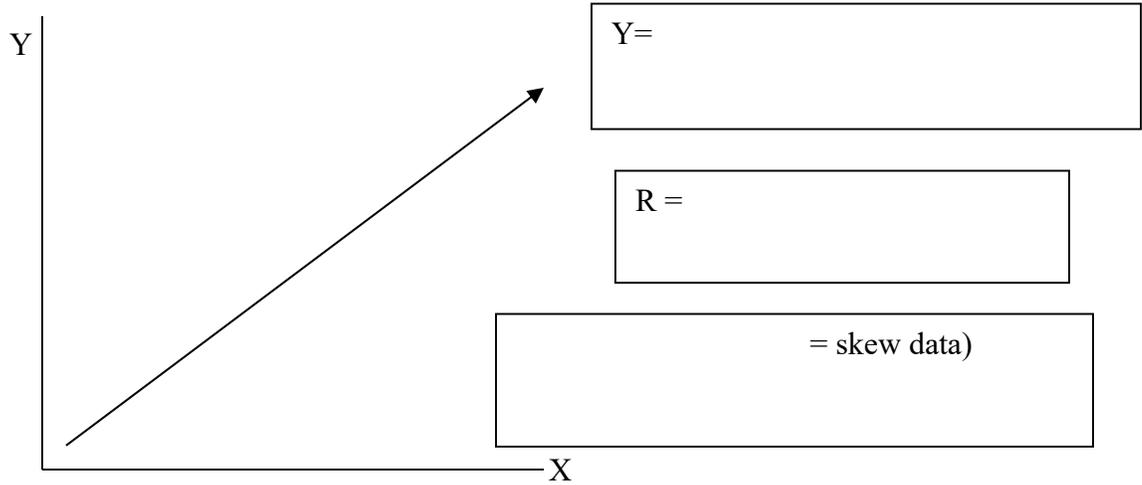
Trial 2:

Dot position	distance traveled from start (meters)	time transpired (seconds)	average velocity (m/s)	final speed (m/s)
5	0.0300			
10	0.0900			
15	0.150			
20	0.380			

Y

Y=

R =

= skew data)

X

Trial 3:

Dot position	distance traveled from start (meters)	time transpired (seconds)	average velocity (m/s)	final speed (m/s)
5	0.0100			
10	0.0700			
15	0.160			
20	0.330			

Y

Y=

R =

= skew data)

X