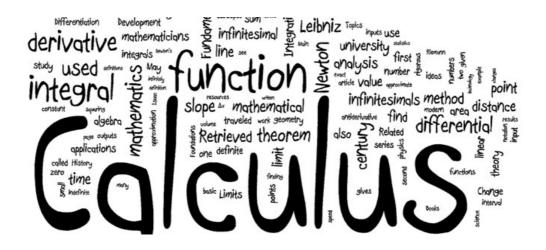
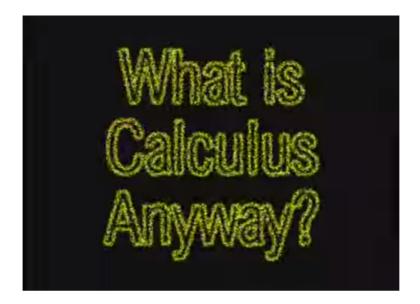
### Sit wherever you would like today.







(1:32)

http://www.cleanvideosearch.com/media/action/yt/watch?videoId=ismnD\_QHKkQ







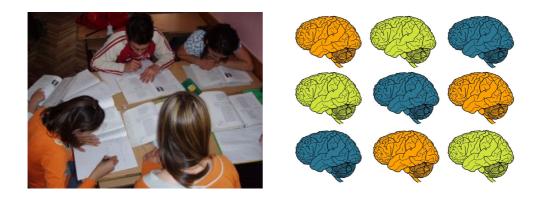




https://www.youtube.com/watch?v=yxe1MLuilQw

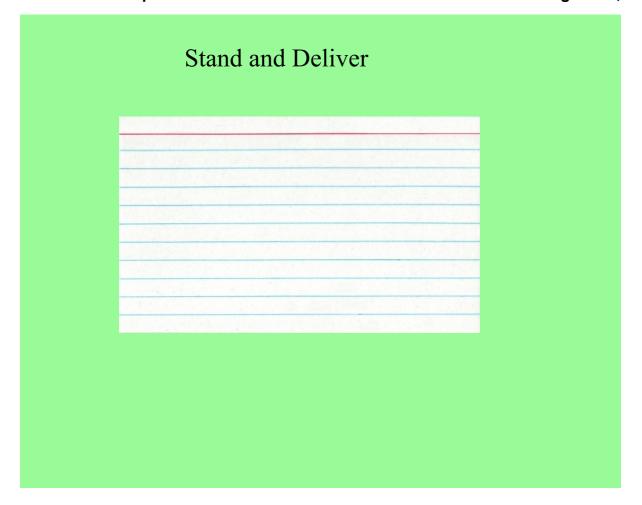






# BC FUN

**NIGHT** 



## CU Succeed AP Calculus BC website

#### Bear Creek High School (061043) - Calculus BC, All Students

Section Summary		Subject Summary							
Score	5	4	3	2	1	Total Students	Average Score	Total Students	Average Score
Total Students	11	9	4	3	0	27	4.037	27	4.037

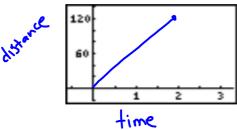
#### Bear Creek High School (061043) - Calculus BC: AB Subscore, All Students

Section Summary		Subject Summary							
Score	5	4	3	2	1	Total Students	Average Score	Total Students	Average Score
Total Students	15	5	5	2	0	27	4.222	27	4.222

#### A Preview of Calculus

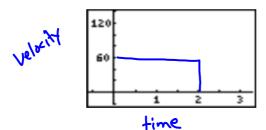
The distance from Denver, Colorado, to Cheyenne, Wyoming, is approximately 1/20 miles.

1. If I make this trip at a constant velocity, and it takes me 2 hours, how fast am I traveling? Sketch a graph of my distance traveled vs. time below.



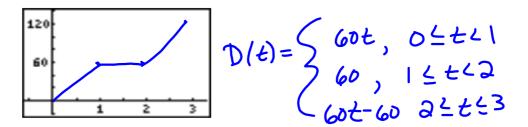
D(+)=60t What is the equation of the distance vs. time graph above?

What would the graph of the velocity vs. time graph look like? Sketch it below.



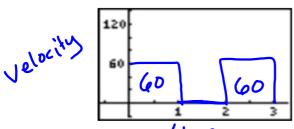
It is easy to see that the slope of the distance vs. time graph is the height of the constant function for the velocity vs. time graph. But, an interesting question is, how could the velocity vs. time graph tell the distance I traveled on the trip?

2. Suppose, during my trip from Denver to Cheyenne, after an hour of driving, I decide to stop for lunch. Lunch takes me an hour to eat and then I am back on my way. Assume that during the first and third hour of my trip I am again traveling at a constant rate of 60 miles per hour (which is highly unlikely!) Sketch a graph of this distance vs. time graph, and find a rule for the equation.



$$\frac{3-2}{120-60} = 60 \quad \text{A-80} = 90(\text{X-3})$$

What would the graph of this velocity vs. time graph look like? Sketch it below.



Can this velocity vs. time graph be used to find the total distance traveled? Explain.