

CALCULUS MATH MATTERS

Why Learn Calculus?

Read this article and then answer the questions in full sentences on a separate piece of paper. Please start each numbered item on a new line.

- (a) What is the author's facetious response to the question "Why learn calculus?"
 - (b) Mathematically, what are the two parts of that answer?
- (a) Mathematically, what is integration used to find?
 - (b) What is the real application of this and what is it used to study?
 - (c) Give two real world examples of this provided by the author.
 - (c) What 2 related topics did you study at the very end of Precalculus which researchers are also trying to apply to the study of the topic in 2(b)?
 - (d) Suggest a real world example of your own where integration might be used.
- (a) Mathematically, what are derivatives used to find?
 - (b) What do derivatives allow you to predict?
 - (c) List two real world examples of this provided by the author.
 - (d) Suggest a real world example of your own where derivatives might be used.
- (a) What does the author believe needs to be done to make the study of calculus more valuable?
 - (b) What is the term for creating a representation of a real world situation?
 - (c) Give a real world example of this that was NOT used in the article.