

## AP Calculus Summer Homework

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1. **EMAIL ADDRESS:** Please send me an email from the account you use the most. I will use this address to create a mailing group to be used throughout the coming school year. This email will count as your first homework grade but it must be received by August 15. You will not receive homework credit if I receive your email after this date.
2. **STUDY GUIDE:** Please purchase the 2010-2011 AP Calculus AB/BC prep book 5 Steps to a 5 published by McGraw Hill. Please note that this is last year's book and there will be used copies available for a reduced price. We will use this book during the year to complement the textbook. You must bring it to class on the first day. It will be used as part of an assignment the first few days of class.
3. **READ A BOOK:** Select a book from the following list and write a 250 to 300 word report describing the book and its relationship with science and/or mathematics.
  1. Hominids / Robert J. Sawyer.
  2. Blasphemy / Douglas Preston.
  3. Enigma / Robert Harris.
  4. Spin / Robert Charles Wilson.
  5. The Andromeda Strain / Michael Crichton.
  6. The Hitch Hiker's Guide to the Galaxy / Douglas Adams
  7. Stranger in a Strange Land / Robert Heinlein
  8. Do Androids Dream of Electric Sheep / Phillip Dick
  9. The Time Machine / H.G. Wells
  10. Atlas Shrugged / Ayn Rand
  11. The War of the Worlds / H.G. Wells
  12. Angel and Demons / Dan Brown
  13. A Short History of Nearly Everything / Bill Bryson
  14. Surely You're Joking, Mr. Feynman! / Richard Feynman
  15. Six Easy Pieces / Richard Feynman
  16. Driving Mr. Albert / Michael Paterniti
  17. Tesla – Man Out Of Time / Margaret Cheney
  18. Galileo's Daughter / Dava Sobel
  19. A Beautiful Mind / Sylvia Nasar
  20. Five Equations That Changed the World
  21. Einstein - His Life and Universe / Walter Isaacson
  22.  $E=mc^2$  / David Bodanis
  23. Electric Universe / David Bodanis
  24. The Electric Life of Michael Faraday / Alan W. Hirschfeld