

By now, you have probably noticed that infinity plays a big (no pun intended) role in the study of calculus. Infinity will continue to be important to us as we move into studying integrals, and when you take Calculus II, you will find infinity everywhere—some people even claim that infinity is the unifying theme of a Calculus II course. Below are some quotations about infinity. Respond to one or more of these quotations, both in the context of calculus and generally. Make sure you write a single cohesive response not just disconnected paragraphs. Feel free to find more quotations regarding infinity and include them and your response to them as well.

Also include your response to this question: how has your understanding of infinity changed or been affected by your study of calculus so far this semester?

Use a standard font such as Times New Roman or Arial at a maximum size of 12pt and do not add fluff to get to this length. This assignment will be graded holistically and thus should be written with proper grammar and punctuation. It's due at the beginning of class on Wednesday, November 19.

- “By infinity we mean, not that the divine nature has no known limits or bounds, but that it has no limits or bounds. That which has simply no known limits is the indefinite. The infinity of God implies that he is in no way limited by the universe or confined to the universe; he is transcendent as well as immanent. Transcendence, however, must not be conceived as freedom from merely spatial restrictions, but rather as unlimited resource, of which God's glory is the expression.” (Augustus Strong, *Systematic Theology*)
- “An infinite God can give all of Himself to each of His children. He does not distribute Himself that each may have a part, but to each one He gives all of Himself as fully as if there were no others.” (A. W. Tozer)
- “Since we are structured toward the infinite with a capacity for truth, love and life that knows no bounds, then the nearer we get to Truth, Love, Life—or God—the more fulfilled we are going to be. As for God, who creates and redeems out of love, God is glorified not by the diminishment but by the enhancement and growth of the beloved creature.” (Elizabeth Johnson, *Consider Jesus*)
- “Don't use words too big for the subject. Don't say 'infinitely' when you mean 'very'; otherwise you'll have no word left when you want to talk about something really infinite.” (some advice to a young fan on writing from C. S. Lewis)
- “[Paradoxes of the infinite arise] only when we attempt, with our finite minds, to discuss the infinite, assigning to it those properties which we give to the finite and limited.” (Galileo Galilei)
- “The infinite in mathematics is always unruly unless it is properly treated.” (Edward Kasner and James Newman)
- “God is the tangential point between zero and infinity.” (Alfred Jarry)
- “We enter into the Mystery of the Holy Trinity not so much by thinking and imagining as by loving. Thought and imagination soon reach the limits beyond which they cannot pass, and these limits still fall infinitely short of the reality of God. But love, overstepping all bounds and flying beyond limitations with the wings of God's own Spirit, penetrates into the very depths of the mystery and apprehends Him whom our intelligence is unable to see.” (Thomas Merton)

**Note:** As always, I will consider giving extra credit for creative responses (i.e., other than a single-page paper). If you choose a more creative approach, just make sure that it still contains a sufficient amount of information.