

Hi,

I hope you are enjoying your summer vacation. With the start of school getting closer, I would like you to begin "exercising your brain" by doing some work in the Green Calculus Kennedy book. The following Chapters are review: Chapter 3.3 - Derivatives - Power Rule, Product Rule, Quotient Rule, Chapter 3.5 - Derivatives of Trig Functions & Chapter 4.1 - Chain Rule.

Your assignment is as follows:

Read & Outline Chapter 3.3 in the Kennedy book. Do 3.3 #3 - 45 (Multiples of 3) & p.126 #55 - 58 (19 problems)

Read & Outline Chapter 3.5 in the Kennedy book. Do 3.5 #1, 17, 23, 27, 46-48 & Quick Quiz on p.148 #1-3 (10 problems)

Read & Outline Chapter 4.1 in the Kennedy book. Do 4.1 #5 - 17, 25 - 35, 39 Odds Only (14 problems) & 4.1 #51, 54, 58 (b), (d), (f), 63 & p.160 #70, 72, 73 (7 problems)

Odd answers are in the back of the book, the even answers are below.

These assignments are due on Tuesday, September 8th. We will start with Chapter 3.4 & Chapter 4.2 - 4.4 in September.

I am looking forward to an exciting year!

Mrs. Cuffe

Even Answers

3.3

$$6. \frac{dy}{dx} = -1 + 2x - 3x^2$$

$$12. x = 0, 0.198, 5.5052$$

$$18. \frac{-5}{x^2} + \frac{2}{x^3}$$

$$24. a) 2 \quad b) -10 \quad c) 10/9 \quad d) -12$$

$$30. -x^{-5} + x^{-4} - x^{-3} + x^{-2}$$

$$36. y' = \frac{-1}{x^2} \quad y'' = \frac{2}{x^3} \quad y''' = \frac{-6}{x^4}$$

$$y^{(4)} = \frac{24}{x^5}$$

$$42. y = \frac{-1}{2}x + 2$$

p.126

56. D

58. B

3.5

46. A

48. C

p.148

2. A

4.1 & p.160

$$54. y = mx$$

$$58. (b) 6 \quad (d) \frac{-1}{9} \quad (f) -6$$

70. False

72. E