

Math 191-DX01
Assignment 3

Deadline: Wed Oct 7, 2:30pm Pacific Time
Submit on D2L or email HowardL@camosun.ca

Number of Questions: 2
Total Marks: 7

Show all your work for full marks.

You MAY use the course website (notes, videos etc)

You may NOT copy from others (classmates, tutors, Chegg etc)

Submit jpg or pdf files

Feel free to handwrite your solutions and take photos of your work

Covers Sections 24.1 and 24.2

1. [5 marks] Find the equation of the normal line to $y = (8x^3 + x^2 + 1)(4x^3 - 3x^2 + 2)$ at $x = -1$. Give your answer in the form $ax + by + c = 0$.

2. [2 marks] Consider the equation below. Use Newton's Method with $x_0 = 2$ to find x_1 . Round your answer to two decimal places.

$$x^5 + 7x - 40 = 0$$