## Math 191-DX01 Assignment 2

Deadline: Wed Sept 30, 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 23.7 and 23.8

- 1. [4 marks] Find f'(x):
- a)  $f(x) = \sqrt[7]{x}$
- b)  $f(x) = \frac{1}{x^9}$
- c)  $f(x) = 3(1+7x)^4$
- d)  $f(x) = \frac{8}{\sqrt{1+x^2}}$
- 2. [3 marks] Find  $\frac{dy}{dx}$  given:

$$2x^3 + 7xy + y^3 = 0$$