## A Brief Introduction to basic Maple commands

In this worksheet, we'll introduce some of the basic commands that make math 23 a little easier to bear. First, let's review the very basics - defining functions and evaluation. Maple use := to make a definition. For example



And now, integrate with respect to x (the indefinite integral):

> int(f,x);

$$\frac{1}{3}x^3 - \cos(x)$$

Note that there is no integration constant here so be careful. If you want a definite integral, simply provide bounds:

> int(f,x=1..3);

$$\frac{26}{3} - \cos(3) + \cos(1)$$

This is the value of the integral of f from x=1 to x=3. If you want a decimal approximation of the number, use the evalf command. The % sign is maple's way of saying "use the last this I evaluated here".

> evalf(%);

## 10.19696147