Mathematics 122

Name: ___K e y___

You must show your work to get full credit.

Oil leaks out of a tank at the rate of

$$r(t) = \frac{100 + t}{1 + t^2} \quad \text{gallons/hour.}$$

1. Write an integral that represents the amount of oil that leaked out of the tank during the first 2 hours.

$$\int_0^2 r(t)\,dt = \text{fn Int}((100+x)/(1+x^2), X, 0, 2)$$

2. Evaluate this integral using your calculator.

___111.519___