

Reading Quiz #12

姓名：_____ 系級：_____ 學號：_____ 分數：_____

Read Section 5.5(pages 360-370) and answer the following problems.

利用微積分基本定理的第二部分求下列函數的導函數

1. $F(x) = \int_1^x \sqrt{1+t^4} dt$

2. $G(x) = \int_1^{x^3} \frac{t}{\sqrt{1+t^4}} dt$

3. $H(x) = \int_1^{\cos x} \sqrt[3]{1+t^4} dt$

4. $T(x) = \int_{7x}^{11x+1} \sin(t^4) dt$