Math	222 -	Quiz	7
IVICUII		~ Quiz	•

Section: \_\_\_\_\_ Name: \_\_\_\_

**Problem 1** Compute the Taylor series  $T_{\infty} f(t)$  for  $f(t) = \ln(1 + 5t)$ .

**Problem 2** Compute the 6th degree Taylor polynomial for  $\sin(x)$ , and use it to approximate  $\sin(1)$ . Show that your approximation has an error less than  $\frac{1}{1000}$ .