Name:	**ID:**	**serial:**

MATH 301 Term 061 QUIZ 5

1) Solve problem (1), section 12.4, page 672.

2) The Fourier-Legendre series of f(x) on the interval (-1,1) is

$$f(x) = \sum_{n=0}^{\infty} c_n p_n(x).$$

Find c_6 for the function f(x)=1.

[Hint: $p_0(x), p_1(x), \ldots, p_5(x)$ is given in page 263].