

Engineering Mathematics I---Quiz-7

Dec. 14, 2005

- 1) Write out the standard form of Bessel's equation .
- 2) Write out the standard form of Legendre's equation .
- 3) Explain what the Legendre polynomials $P_n(x)$ is .
- 4) Solve the Bessel's equation $x^2 y'' + xy' + (x^2 - \frac{25}{4})y = 0$.