

Quiz #7
MA 238-02

Name: _____
2/27/09

1. Let $y_1(x) = x^4$ be a solution of $x^2y'' - 6xy' + 12y = 0$. Use the method of reduction of order to find a linearly independent solution of this equation to y_1 .

2. Solve the initial-value problem $y'' - 4y' + 4y = 0$ with $y(0) = 1$ and $y'(0) = 0$.