MATH 420
Worksheet 8

1. Use $x=e^t$ to change transform the Cauchy-Euler equation to a D.E. with constant coefficients. Solve the equation.

$$x^2y'' + 10xy' + 8y = x^2$$

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2. Find the singular points and classify them as irregular or regular. Show work and/or justifications for your answers.

$$x^{3}(x^{2} - 25)(x - 2)^{2}y'' + 3x(x - 2)y' + 7(x + 5)y = 0$$