Quiz one, MTH 205, Spring 2014

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QUESTION 1. Find the largest interval around x so that the LDE: $\sqrt{x+5}\, y^{(2)} + \frac{1}{x-3}\, y = 10$, $y(-2) = 3$, $y'(-2) = 33$.

QUESTION 2. Find $\ell^{-1}\{\frac{s+1}{s^2-9}\}$

Solve the LDE: $y^{(2)} + 3y' + 2y = e^{6x}$, $y(0) = y'(0) = 0$.

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