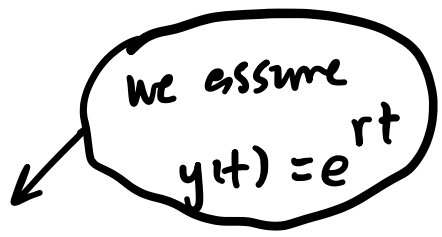
Quiz 7 MTH 335 Fall 2026

Monday, October 12, 2026 4:42 PM

Solve $y'' - y' - 6y = 0$



Soln: Characteristic eqt becomes

$$r^2 - r - 6 = 0$$

$$(r-3)(r+2) = 0$$

$$r = 3, -2$$

$$\Rightarrow y(t) = c_1 e^{3t} + c_2 e^{-2t}$$