Discrete Assignment

EE:1205 Signals and Systems
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I. Question GATE AG 14

$y = e^{mx} + e^{-mx}$ is the solution of which differential equation?

1. $\frac{dy}{dx} - my = 0$
2. $\frac{dy}{dx} + my = 0$
3. $\frac{d^2y}{dx^2} + m^2y = 0$
4. $\frac{d^2y}{dx^2} - m^2y = 0$