

MAT274 Quiz 3

15 minutes, open book

This quiz will be graded at 10 points.

Find the general solution to

$$\frac{1}{2} \frac{d^2 y}{dt^2} + \frac{dy}{dt} + 5y + 3 \cos(2t) - 2 \sin(2t) = 0$$

and then briefly explain how $y(t)$ will behave as $t \rightarrow \infty$.