

Finish review

State Finished Completed on Sunday, 4 June 2023, 12:03 PM **Time taken** 3 mins 19 secs **Grade 0.00** out of 3.00 (**0**%) Question 1 Mark 0.00 out of 1.00 Incorrect Solve y''+2y'+y=x+1. (No need to use higher maths here!) Select one or more: lacksquare a. $x^2+x+c_2e^{-x}x+c_1e^{-x}-1$ lacksquare b. $x+c_2e^{-x}x+c_1e^{-x^2}-1$ What?

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 $lacksquare c. \ x + c_2 e^{-x} x + c_1 e^{-x} - 1$ Your answer is incorrect. The correct answer is: $x+c_2e^{-x}x+c_1e^{-x}-1$ Question 2 Flag question Mark 0.00 out of 1.00 Consider $y''(x) + 4y'(x) + 4y(x) = e^{-2x}$. What is the form of the solution? Select one or more: \square a. Kxe^{-2x} b. Ke^{-2x} But that is the solution of the homogeneous problem? lacksquare c. Kx^2e^{-2x} Your answer is incorrect. The correct answer is: Kx^2e^{-2x} Question **3** Mark 0.00 out of 1.00 Flag question Incorrect Consider $y'' + 16y = \cos 4t$. What is the model of the solution? Is resonance possible? Select one or more: \square a. $A\sin 4t$, yes. \square b. $At\sin 4t + Bt\cos 4t$, yes. riangleq c. $A\sin 4t + B\cos 4t$, yes. But where is that promised resonance? Your answer is incorrect. The correct answer is: $At\sin 4t + Bt\cos 4t$, yes. Finish review



■ Lecture 10 (Activation)

Quiz)

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Problem Sheet 1 ►

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