CourseWare

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Quiz 5

$$y'' + 16y = -5\sec(4x)$$

a) $y = C_1\sin(4x) + C_2\cos(4x) - \frac{5}{4}x\cos(4x) - \frac{5}{16}\cos(4x)\ln(|\cos(4x)|)$

b) $y = C_1\sin(4x) + C_2\cos(4x) - \frac{5}{4}x\sin(4x) - \frac{5}{16}\sin(4x)\ln(|\cos(4x)|)$

c) $y = C_1 e^{4x} + C_2 e^{-4x} - \frac{5}{4}x\sin(4x) + \frac{5}{16}\cos(4x)\ln(|\cos(4x)|)$

d) $y = C_1 e^{4x} + C_2 e^{-4x} - \frac{5}{4}\sin(4x) - \frac{5}{16}\cos(4x)\ln(|\cos(4x)|)$

e) $y = C_1 e^{4x} + C_2 e^{-4x} - \frac{5}{4}\sin(4x) - \frac{5}{16}\sin(4x)\ln(|\cos(4x)|)$

f) None of the above.

Question 3

Your answer is CORRECT.

Give the general solution of the differential equation

$$y'' - 10y' + 25y = 2e^{5x} + \frac{e^{5x}}{x}$$

a) $y = C_1 e^{5x} + C_2 x e^{5x} + e^{5x} + e^{5x}\ln(x)$

b) $y = C_1 e^{-5x} + C_2 x e^{-5x} + e^{5x} + e^{5x}\ln(x)$

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CLOCK

Start Time	7/2/2017 10:23:33 PM
Time Taken	00:02:27

NAVIGATION

[5] Q 1	[5] Q 2	[5] Q 3	[5] Q 4
[5] Q 5	[5] Q 6	[5] Q 7	[5] Q 8
[5] Q 9	[5] Q 10	[5] Q 11	[5] Q 12
[5] Q 13	[5] Q 14	[5] Q 15	[5] Q 16
[5] Q 17	[5] Q 18	[5] Q 19	[5] Q 20

TEST INFORMATION

Your Score is:	15
Out of:	100
Time Allowed:	150 min
Total Problems:	20

COLORING LEGEND

Not Answered	Incorrect	Correct