

Q17.8

March 2001

Problem 17.8 (2001M1)

January 2001

Question 1. Find the general solution.

$$\text{a) } y'' + 2y' + 2y = 0$$

$$\text{b) } y'' + 2y' + 2y = 1$$

Q17.8 a) $y'' + 2y' + 2y = 0$ Use Characteristic

$$r^2 + 2r + 2 = 0$$

$$r = -1 \pm i$$

$$y_1 = e^{-x} \cos x$$

$$y_2 = e^{-x} \sin x$$

$$y = e^{-x} (C_1 \cos x + C_2 \sin x)$$

b) $y'' + 2y' + 2y = 1$

$$y_1 = e^{-x} \cos x$$

$$y_2 = e^{-x} \sin x$$

$$y_3 = e^{-x}$$

$$y = e^{-x} (C_1 \cos x + C_2 \sin x + C_3)$$

$$(e^{-x} \cos x)' = -e^{-x} \cos x$$

$$e^{-x} \cos x = -e^{-x} \cos x$$

$$y = e^{-x} \cos x + e^{-x} \sin x + e^{-x}$$

$$y'' = \frac{1}{x+1} + C_1 e^{-x}$$

Method 2 $y'' + 2y' + 2y = 1$

Solutions Manual To Math 3321

SA Adler



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