

section 9

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Ques 1

Ans

$$(2D+1)y = 0$$

$$AE = (2m+1)^2 = 0$$

$$4m^2 + 4m + 1 = 0$$

$$\cancel{2m} \cdot 2m + 1$$

$$4m^2 + 2m + 2m + 1 = 0$$

$$2m(2m+1) + 1(2m+1) = 0$$

$$(2m+1)(2m+1) = 0$$

$$2m = -1$$

$$m = -\frac{1}{2}$$

$$\boxed{y = (C_1 + C_2 x) e^{-\frac{1}{2}x}}$$