Q#4\_

let 
$$m = \frac{d}{dx}$$

$$m = -b \pm \sqrt{b^2 - 4ac}$$
 $2a$ 
 $m = -4 \pm \sqrt{16 - 272}$ 

$$m - -4 \pm \sqrt{16-272}$$

$$m = -4 \pm 161$$

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

$$y_{c} = e^{-1/2} \times \left( c_{1} \cos_{2}(2)x + c_{2} \sin_{2}(2)x \right)$$

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$$y_{c} = e^{-1/2} \left( c_{1} \cos_{2}(2)x$$

$$y = e^{-\frac{1}{2}} \left[ \frac{1}{(1)\cos 2x} + \frac{5}{4} \sin 2x \right]$$

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