

4.2

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$$y'' - 4y = 2$$

$$m = \pm 2$$
$$m^2 - 4 = 0$$

$$y_c = c_1 e^{2x} + c_2 e^{-2x}$$

$$y_p = A$$

$$0 - 4A = 2$$

$$y_p' = 0$$

$$y_p'' = 0$$

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

$$y = -\frac{1}{2} + y_c$$