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$$x = C_1 + C_2 e^{2t}$$

$$x(0) = 5, \text{ so } C_1 = 5. \text{ } x = 5t + C_2, \text{ but } x(0) = 2, \text{ so } C_2 = 2. \text{ Thus } x = 5t + 2.$$

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