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$$m^5 + 5m^4 - 2m^3 - 10m^2 + m + 5 = 0$$

$$x = -5 \quad \sim \quad x = -1 \quad \sim \quad x = 1$$

$$x = -1 \quad \quad \quad x = 1$$

$$y_c = c_1 e^{-5r} + c_2 e^{-r} + c_4 e^r + c_3 r e^{-r} + c_5 r e^r$$