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$I = r \text{ e}^{ax} \cos (t)^? bx + c$ where we have used the formula $\cos A \cos B - \sin A \sin B = \cos (A + B)$ Differentiating again and simplifying as before, $y_2 = r_2 e^{ax} \cos (2t)^? bx + c$. Similarly $y_3 = r_3 e^{ax} \cos (3t)^? bx + c$ Thus $y = r \text{ e}^{ax} \cos (n \text{ b}x + c) = ?a +$ Where $r = a^2 + b^2 \text{ and } ? = \tan^{-1}(b/a)$.

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