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Unit 3

Laplace Transforms

1. Find $L\!\left(2e^{-3t} + 3t^2 - 4\sin 2t + 2\cos 3t\right)$.

2. Find $L\!\left[e^{-at}\cos bt\right]$.

3. Find $L\!\left(t\sin 2t\right)$.

4. Find $L^{-1}\!\left(\dfrac{1}{s-3} + \dfrac{1}{s} + \dfrac{s}{s^2 - 9}\right)$.

5. Find $L^{-1}\!\left(\dfrac{s}{(s+2)^2}\right)$.

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