

Part I Problems

Problem 1: Find $\mathcal{L}(t^4 e^{\pi t})$

Problem 2: Find $\mathcal{L}^{-1}\left(\frac{3}{2s-4}\right)$

Problem 3: Find $\mathcal{L}^{-1}\left(\frac{1}{s^2+4s+4}\right)$

Problem 4: Find $\mathcal{L}^{-1}\left(\frac{s+2}{s^2+4s+5}\right)$

Problem 5: Find $\mathcal{L}^{-1}\left(\frac{5s-6}{s^2-3s}\right)$

Problem 6: Find $\mathcal{L}^{-1}\left(\frac{5-2s}{s^2+7s+10}\right)$

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