

Computing the Laplace Transform

Quiz: What is $\mathcal{L}((1+t)^2)$?

Choices:

- a. $(1/s + 1/s^2)^2 = 1/s^2 + 2/s^3 + 1/s^4$.
- b. $1/s + 2/s^2 + 2/s^3$.
- c. $(1+t)(1/s + 1/s^2)$.
- d. None of the above.

Answer: (b): $\mathcal{L}((1+t)^2) = \mathcal{L}(1 + 2t + t^2) = \frac{1}{s} + \frac{2}{s^2} + \frac{2!}{s^3}$.

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