

Quiz 1

[1]Find $B(2, -\frac{1}{2})$

[2]Find the integrals:

$$(a) \int_0^{\infty} \sqrt{x} \cdot e^{-2x} dx$$

$$(b) \int_0^{\pi/2} \sqrt{\cot y} dy$$

$$(c) \int_0^1 \sqrt{x^2 - x^3} dx$$

[3]Find the L.T of the following:

$$(a) f(t) = 3 + t + \sin t \quad (b) f(t) = t \cdot \sin t \quad (c) f(t) = e^{3t} \cdot \cos 2t$$

$$(d) f(t) = 4 + t^3 \cdot \delta_2(t) \quad (e) f(t) = (t - 1)^2 \quad (f) f(t) = (t - 1)^2, \quad t > 1$$

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Quiz 2

[1]Find the inverse Laplace transform of the following:

(a) $F(s) = \frac{3}{s} + \frac{1}{s^3}$ (b) $F(s) = \frac{1}{(s-2)^3} + \frac{s}{s^2+4}$ (c) $F(s) = \frac{s}{s^2-4} + \frac{1}{s^2+3}$

[2] Solve the equation: $y' + 4y' + 3y = e^{-t}$, $y(0) = y'(0) = 1$

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$$f(x) = x + 1, \quad -1 \leq x \leq 1, \quad f(x+2) = f(x)$$

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