

Quiz 11

1. (2p) Find Laplace transform of

$$\cos t$$

2. (2p) Find Laplace transform of

$$te^t$$

3. (1p) Find inverse Laplace transform

$$\frac{2s - 3}{s^2 - 4}$$

4. (2p) Find inverse Laplace transform

$$\frac{1 - 2s}{s^2 + 4s + 5}$$

5. (3p) Solve IVP using Laplace transform

$$3y'' - y' - 2y = 0, \quad y(0) = 2, y'(0) = -2$$