

B-2-22.

$$\ddot{x} + 4x = 0, \quad x(0) = 5, \quad \dot{x}(0) = 0$$

The Laplace transform of the given differential equation is

$$[s^2X(s) - sx(0) - \dot{x}(0)] + 4X(s) = 0$$

Substitution of the initial conditions into this last equation gives

$$(s^2 + 4)X(s) = 5s$$

Solving for $X(s)$, we obtain

$$X(s) = \frac{5s}{s^2 + 4}$$

The inverse Laplace transform of $X(s)$ is

$$x(t) = 5 \cos 2t$$

This is the solution of the given differential equation.

B-2-23.

$$\ddot{x} + \omega_n^2 x = t, \quad x(0) = 0, \quad \dot{x}(0) = 0$$

The Laplace transform of this differential equation is

$$s^2X(s) + \omega_n^2 X(s) = -\frac{1}{s^2}$$

Solving this equation for $X(s)$, we obtain

$$X(s) = \frac{1}{s^2(s^2 + \omega_n^2)} = \left(\frac{1}{s^2} - \frac{1}{s^2 + \omega_n^2} \right) \frac{1}{\omega_n^2}$$

The inverse Laplace transform of $X(s)$ is

$$x(t) = \frac{1}{\omega_n^2} \left(t - \frac{1}{\omega_n} \sin \omega_n t \right)$$

This is the solution of the given differential equation.

B-2-24.

$$2\ddot{x} + 2\dot{x} + x = 1, \quad x(0) = 0, \quad \dot{x}(0) = 2$$

The Laplace transform of this differential equation is

$$2[s^2X(s) - sx(0) - \dot{x}(0)] + 2[sX(s) - x(0)] + X(s) = \frac{1}{s}$$

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