

Full Answer for
Question (11)

$$\left[\frac{2}{5}(\cos t) + \frac{4}{5}(\sin t) - \frac{2}{5}(e^t \cos t) - \frac{4}{5}(e^t \sin t) - \frac{2}{5}(\cos t) + \frac{1}{5}(\sin t) + \frac{2}{5}(e^t \cos t) + \frac{1}{5}(e^t \sin t) \right]$$

Simplified
Version

$$\underline{\underline{\sin t - (e^t \sin t)}}$$

{ Full Answer for }
Question (11)

$$\left[\frac{2}{5}(\cos t) + \frac{4}{5}(\sin t) - \frac{2}{5}(e^t \cos t) - \frac{6}{5}(e^t \sin t) - \frac{2}{5}(\cos t) + \frac{1}{5}(\sin t) + \frac{2}{5}(e^t \cos t) + \frac{1}{5}(e^t \sin t) \right]$$

{ Simplified }
{ Version }

$$\underline{\underline{\sin t - (e^t \sin t)}}$$