

7.3.8.

$$L\{e^{at}f(t)\} = F(s - a)$$
$$L\{e^{-2t} \cos 4t\} = L\{\cos 4t\} = \frac{s}{s^2 + 4^2} =$$

$$= \frac{s - (-2)}{(s - (-2))^2 + 4^2} = \frac{s + 2}{(s + 2)^2 + 4^2} = \frac{s + 2}{s^2 + 4s + 20}$$