7.2.16.

$$L^{-1}\left\{\frac{s+1}{s^2+2}\right\} = L^{-1}\left\{\frac{s}{s^2+2}\right\} + L^{-1}\left\{\frac{1}{s^2+2}\right\} =$$

$$= L^{-1}\left\{\frac{s}{s^2+2}\right\} + \frac{1}{\sqrt{2}} L^{-1}\left\{\frac{\sqrt{2}}{s^2+2}\right\} =$$

$$= \cos\sqrt{2}t + \frac{1}{\sqrt{2}}\sin\sqrt{2}t$$