

$$\begin{aligned}
&= \mathcal{L}^{-1}\left\{\frac{2}{s^2}\right\}(x) \\
&\quad + \mathcal{L}^{-1}\left\{\frac{(s+2)e^{-2s}}{s^3}\right\}(x) - \mathcal{L}^{-1}\left\{\frac{4e^{-3s}}{s}\right\}(x) \\
&= \mathcal{L}^{-1}\left\{\frac{2}{s^2}\right\}(x) \\
&\quad + \boxed{\phantom{\frac{(s+2)e^{-2s}}{s^3}}} - \mathcal{L}^{-1}\left\{\frac{4e^{-3s}}{s}\right\}(x) \\
&= \boxed{\phantom{\frac{(s+2)e^{-2s}}{s^3}}} \\
&= \boxed{\phantom{\frac{(s+2)e^{-2s}}{s^3}}}
\end{aligned}$$

Additional Examples. See Section 4.5 of the text and the notes presented on the board in class.

Suggested Problems. Do the odd numbered problems for Section 4.5. The answers are posted on Dr. Walker's web site.