MATH 3705A
Corrections to the Textbook

Page 11, Theorem 1.4
Replace Equation (1.8) by

$$\mathcal{L}\{f''(t)\} = s^2\mathcal{L}\{f(t)\} - sf(0) - f'(0)$$

Page 27, Example 1.43
Replace the last line by

$$\frac{2}{s^3} - e^{-s}\left(\frac{2}{s^3} + \frac{2}{s^2} - \frac{2}{s}\right) + e^{-4s}\left(\frac{1}{s^2} + \frac{1}{s}\right)$$

Page 157, Example 3.7, fourth line
Replace $k = \pm 1,\ \pm 2,\ \cdots$, by $k = 0,\ \pm 1,\ \pm 2,\ \cdots$,

Page 158, third line below Figure 3.3
Replace $k = \pm 1,\ \pm 2,\ \cdots$, by $k = 0,\ \pm 1,\ \pm 2,\ \cdots$,

Page 221, Exercise 2

Replace $u_{xx} = u_t$ by $u_{xx} = u_{tt}$.

Page 407, Solution 10(e)
In $y_1(t)$, replace $t - 1$ by $t - \pi$:
$y_1(t) = \mathcal{L}^{-1}\left\{\dfrac{e^{-\pi s}}{s^2 - 2s + 4}\right\} = \dfrac{1}{\sqrt{3}}u(t-\pi)e^{t-\pi}\sin\left[\sqrt{3}(t-\pi)\right]$

Page 497, Solution 2

Replace $u_{xx} = u_t$ by $u_{xx} = u_{tt}$.