

1. Use the tables to find the inverse Laplace transform of  $F(s) = \frac{1}{s-7} + \frac{e^{-2s}}{s-4} + 2$ .

2. Solve the initial value problem  $y'' + 4y' + 13y = 3\delta(t-3)$ ;  $y(0) = 0$ ,  $y'(0) = 0$ .