

8) F(5) = 3511 = 3514 = 2 1/5] - [1/514] = 38(c)-11e42

4) F(S) = (54) 1/5+2) = 1-1/5 5+1 } - 1-1/5 5+2 } = 40-6-46-24

6) $F(s) = \frac{s^2+2}{s^2+2s^2+2s} = L^{-1}\left\{\frac{1}{s}\right\} - 2L^{-1}\left\{\frac{1}{(s+1)^2+1}\right\} = H(2) - 2e^{\frac{1}{2}}\sin(e)$

7) F(S)= (31) (52440+8) = L' {31} - 2L' { (312)2+4 } - 2L' { (312)2+4 } = 20 - 20 - 20 - 20 (22) - 0 20 + 20 (22)

9) F(5) = 5(41)3 = L" { } } - L" { 5+1 } - L" { (5+1)2 } - L" { (5+1)3 } = 8H(6) - 862 - 626 (86 - 624 X 462)

10) \frac{d^2 \delta}{dt^2} + 5 \frac{dw(t)}{dt} + 6 w(t) = 25e^{-t} u(t) \qquad v(0^-)=5 \qquad v(0^-)=10 \qquad v''(0^-)=0

41 N(0) + 5 4N(0) + 6N(0) = 0 + 5(10) + 6(5) = 80 = 550 alo.)

80 = u(o') = 15