

1. Find :  $\mathcal{L}^{-1}\left\{\frac{(1+e^{-2s})^2}{s+2}\right\}$

2. Find :  $\mathcal{L}^{-1}\left\{\frac{s+2}{s^2+4s+13}\right\}$

3.  $f(t) = t^2 + 3t + 2$ , find  $\mathcal{L}\{f(t)H(t-2)\}$