Laplace transform pairs (used throughout)

10 Laplace identities (2 from list below used)

   2   Derivative d/dt

   2   Multiply by t

   2   Integrate in t domain

   2   Multiply by e^{-at}

   2   Delay

   0   Divide by t

   0   Time scaling

10 Inverse Laplace (partial fractions) (1 from list below used)

   2   real roots

   4   complex roots

   2   repeated roots

   2   plot poles and zeros

10 Initial and Final Value Theorems (1 from list below used)

   5   Initial value theorem

   5   Final value theorem

30 s-domain circuit model (including initial condition sources)

 .   10 initial condition sources

 .   10 sL, R, and $1/sC$

 .   10 $\mathcal{L}\{$sources$\}$

10 $V_o(s)$ from s-domain circuit

10 $v_o(t)$ from $V_o(s)$

Use 50 points of 80, then double the pts. 30 pt prob may be broken into separate 10 pt pieces.