

Test of Prerequisites	PROBLEMS 1-17
Definition of the Laplace Transform	1.3 (<i>Frame number</i>)
Evaluation of $\mathcal{L}[A e^{at}]$	1.12
Evaluation of $\mathcal{L}[A]$	1.15
<i>Theorem 1:</i> $\mathcal{L}[af(t) + bg(t)] = aF(s) + bG(s)$	1.24
<i>Theorem 2:</i> $\mathcal{L}[df(t)/dt] = sF(s) - f(0)$	2.3
Partial Fraction expansion; simple real roots	4.3, 4.4
<i>Theorem 3:</i> $\mathcal{L}[d^2f/dt^2]$	6.1-6.3
<i>Theorem 4:</i> $\mathcal{L}[d^n f/dt^n]$	6.5
<i>Theorem 5:</i> $\mathcal{L}\left[\int_0^t f(t) dt\right]$	8.1-8.3
Evaluation of $\mathcal{L}[At^n]$	8.9-8.19
Evaluation of $\mathcal{L}[A \cos \omega t]$ and $\mathcal{L}[A \sin \omega t]$	10.4, 10.7, 10.8
Evaluation of $\mathcal{L}[2M e^{at} \cos(\omega t + \theta)]$	10.12
Partial Fraction expansion; complex roots	11.3-11.8
Notation for inverse Laplace Transform	14.7
Partial Fraction expansion; repeated real roots	15.3-15.5
<i>Theorem 6:</i> $\mathcal{L}[e^{at}f(t)]$	16.1
<i>Theorem 6a:</i> $\mathcal{L}^{-1}[F(s - a)]$	16.10
Simultaneous differential equations	18.1-18.5
Sample Examination	QUESTIONS 1-12
Bibliography	Page 197