

ELEG 3124 Assignment # 11

1. Find the bilateral Laplace transform of the following signals.
 - (a) $\exp(t + 1)$
 - (b) $|t|$.
 - (c) $\exp(-2|t|)$.
 - (d) $\cos(at)u(-t)$.

2. Find the unilateral Laplace transform of the following signals.
 - (a) $x(t) = t \cdot \text{rect}\left(\frac{t-1}{2}\right)$
 - (b) $x(t) = Au(t) + 2\delta(t)$.
 - (c) $x(t) = A \cos(\omega_0 t + \theta)$.
 - (d) $x(t) = A \sin(\omega_0 t + \theta)$.