

**Dr. Z.'s Math 421 Quiz #1**

**NAME:** (print!) \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

**1.** Using the **definition** find the Laplace transform  $\mathcal{L}\{f(t)\}$  (alias  $F(s)$ ) of  $f(t) = e^{-t} + 3$ .

**2.** Using Tables, find  $\mathcal{L}\{f(t)\}$ , if  $f(t) = (t + 1)(t - 1) + 3t$ .