THE UNIVERSITY OF TEXAS AT SAN ANTONIO
EE 3413
ANALYSIS AND DESIGN OF CONTROL SYSTEMS

QUIZ # 2
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February 4, 2016

Name:

The Laplace transform $F(s)$ of $f(t)$ is given by:

$$F(s) = \int_0^\infty e^{-st} f(t)\, dt.$$

Applying the definition, find the Laplace transform of the following function:

$$f(t) = 2te^{7t} + 4\cos(25).$$

You should only apply the definition, explicitly, and use integration by parts:

$$\int uv' = uv - \int u'v.$$

Your Solution: