

Quiz # 5– Math 2233, Differential Equations – Nov. 19, 2014

1. (5 pts) Find the inverse Laplace transform of

$$\frac{2e^{-3s}}{s^2 - 4}$$

2. (5 pts) Write $f(t)$ in terms of unit step functions and compute its Laplace transform:

$$f(t) = \begin{cases} 1 & 0 \leq t < 2 \\ e^t & t \geq 2 \end{cases}$$