

Math 251  
Section: 1

Quiz 4 (make-up)  
Summer 2009

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**All work must be shown to receive full credit!**

1. Compute the following (indicate the identity you are using).

(a)  $\mathcal{L}\left\{u_{2\pi}(t)(t - 2\pi)e^{(t-\pi)} \sin(t)\right\}(s) =$

$$(b) \mathcal{L}^{-1} \left\{ \frac{e^{-2(s-1)}}{(s-1)^3 - (s-1)} \right\} (t) =$$