

學號：

姓名：

國立中山大學 97 學年度第 2 學期資訊工程學系資工數學

Quiz #5

2009/04/22

1. Use the time delay property of the Laplace transform $\mathcal{L}\{f(k-n)\} = z^{-n}F(z)$

$f(k) = 4, k = 2, 3, 4, \dots$ (25%)

2. Use the time advance property to find the z-transform of the causal sequence $\{f(k)\} = \{4, 8, 16, \dots\}$ (25%)

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3. Find the z-transform of the sampled ramp sequence $f(k) = k$, $k = 0, 1, 2, \dots$ (25%)

4. Find the z-transform of the exponential sequence $f(k) = e^{-\alpha kT}$, $k = 0, 1, 2, \dots$ (25%)