

Name: _____

ID#: _____

Math 1115, Summer Term A

First Midterm Examination

Wednesday, May 26, 2010

Instructor: Neil McKay

- The exam is 6 single-sided pages, including this cover page/formula sheet.
 - The exam is one (1) hour.
 - Write your solutions in the space provided.
 - Solutions will be evaluated on the workings shown and the answers given.
 - No calculators, no notes, and no textbooks.
 - All work is to be completed individually.
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Formula Sheet (may be detached below line)

$$S = P(1 + r)^n$$

$$P = S(1 + r)^{-n}$$

$$r_e = \left(1 + \frac{r}{n}\right)^n - 1$$

$$S = Pe^{rt}$$

$$P = Se^{-rt}$$

$$r_e = e^r - 1$$

$$s = \sum_{i=0}^{n-1} ar^i = \frac{a(1 - r^n)}{1 - r}$$

$$A = R \cdot \frac{1 - (1 + r)^{-n}}{r} = Ra_{\overline{n}|r}$$

$$S = R \cdot \frac{(1 + r)^n - 1}{r} = Rs_{\overline{n}|r}$$

$$A = R(1 + a_{\overline{n-1}|r})$$

$$S = R(s_{\overline{n+1}|r} - 1)$$