## $\frac{\text{Math 099 - Assignment 7}}{\text{October 15, 2018}}$

Name Key Score

Show all work to receive full credit. Supply explanations when necessary. This assignment is worth 5 points.

1. Use your calculator to evaluate each expression at the given values.

(a) 
$$P \cdot \left(1 + \frac{r}{n}\right)^{60}$$
 when  $P = 1500.75$ ,  $r = 4.55\%$ , and  $n = 5$ 

(b) 
$$P \cdot \left(1 + \frac{r}{n}\right)^{nt}$$
 when  $P = 535.50$ ,  $r = 2.75\%$ ,  $n = 4$ , and  $t = 10$ 

$$535.50* (1+0.0875/4)^{(4*10)}$$

$$\approx 704.3390799$$

(c) 
$$R \cdot \left[ (1 + \frac{r}{n})^{nt} - 1 \right]$$
 when  $R = 250$ ,  $r = 7.5\%$ ,  $n = 12$ , and  $t = 25$ 

(d) 
$$R \cdot \left[1 - (1 + \frac{r}{n})^{-nt}\right]$$
 when  $R = 1000, r = 8.25\%, n = 12$ , and  $t = 15$ 

- 2. Round each number to the indicated place.
  - (a) 123.4556 to the nearest hundredth

123.46

(b) 0.000825 to the nearest thousandth

0.001

(c) 0.468 to the nearest one

 $\bigcirc$ 

(d) 145459.82 to the nearest thousand

145,000.00

(e) 145459.82 to the nearest ten thousand

150,000