Math 099 - Quiz 6

Name <u>key</u>

October 22, 2018

Show all work to receive full credit. Supply explanations when necessary.

1. (3 points) Use your calculator to evaluate each expression.

(a)
$$\frac{8.14(5.3-1.22)}{16.3-8.7} \approx 4.369894737 \approx 4.37$$

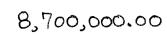
(b)
$$\left(1 + \frac{0.08725}{8}\right)^{8.15} \approx 3.675410004 \approx 3.68$$

2. (5 points) Use your calculator to evaluate each expression at the given values.

(a)
$$P \cdot (1 + \frac{r}{n})^{nt}$$
 when $P = 1500$, $r = 4.15\%$, $n = 2$, and $t = 25$

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

- 3. (2 points) Round each number to the indicated place.
 - (a) 8,657,331.95 to the nearest hundred thousand



(b) 59.82645 to the nearest thousandth

59.896