

**Math 099 - Quiz 7**

April 9, 2019

Name key

Score \_\_\_\_\_

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

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

(a)  $\frac{8.14(5.3 - 1.22)}{16.3 - 8.7} \approx 4.370$

(b)  $\left(1 + \frac{0.08725}{8}\right)^{8 \times 15} \approx 3.675$

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

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

$$1500 * \left(1 + \frac{0.0415}{2}\right)^{(2 * 25)} \approx 4188.52$$

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

$$1000 * \left(1 - \left(1 + \frac{0.0825}{12}\right)^{-12 * 15}\right) \approx 708.66$$

3. (2 points) Round each number to the indicated place.

(a) 8,657,331.95 to the nearest hundred thousand



$$8,700,000.00$$

(b) 59.82645 to the nearest thousandth



$$59.826$$