## Math 112 - Quiz 13

October 25, 2018

Name_	key		
	0	~	
		Score	

Show all work to receive full credit. Supply explanations when necessary. This quiz is worth 5 points. You must work individually.

1. (3 points) Decide which is the better investment by computing and comparing effective rates: 3% compounded daily or 3.1% compounded quarterly.

$$\overline{\underline{\Gamma}} = \left(1 + \frac{0.03}{365}\right)^{365} - 1$$

3.1 % QUARTERLY:

≈ 0.031362

3.190 QUARTERLY

15 THE BETTER

INVESTMENT RATE.

2. (2 points) How much would you have to invest into a 5-year certificate of deposit paying 2.3% compounded weekly (52 weeks per year) to make it worth \$4500 at the end of the term?

$$P = \frac{A}{(1 + \frac{r}{n})^{nt}}$$

$$P = \frac{4500}{(1+\frac{0.033}{52})^{(53)(5)}} = \frac{4011.35}{}$$