Math 112 - Quiz 12

October 29, 2018

Name_	key		
	S	C	
		Score	

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

- 1. (5 points) In order to plan for their retirement, a couple decides to invest in an annuity. They will make \$2000 semiannual payments into an account earning 8% compounded semiannually.
 - (a) How much will the account be worth in 25 years?

$$A = \frac{3000 * ((1 + 0.08/a)^{(2*25)-1})}{(0.08/a)}$$

$$= 305.334.$$

Y= 25

(b) How much of the account's value is from interest?

$$305334.17 - 3000(3)(35)$$

$$= (805,334.17)$$