Math 112 - Quiz 12

October 23, 2018

Name	key	
	J	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) \$825 is deposited into an account that earns 4.25% compounded monthly. How much is the account worth after 15 years? How much is made in interest?

$$A = 885(1 + 0.0435/12)^{13.15}$$

$$= 885 * (1 + 0.0435/12)^{(12 * 15)}$$

$$= $1558.93$$

$$I = A - P = /558.93 - 885$$

$$= (#733.93)$$

2. (2 points) A couple sets aside \$5000 in a savings account. Interest is compounded quarterly at 9%. How much is the account worth after 10 years?

$$A = 5000 (1 + 0.09/4)^{4.10}$$

$$= 5000 * (1 + 0.09/4)^{4} (4 * 10)$$

$$= (1 + 0.09/4)^{4}$$