Math 112 - Quiz 8

November 3, 2016

Name _	key	
	2	Score

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

- 1. (6 points) A house sells for \$145,000 and a 15% down payment is made. A mortgage is secured at 4.35% for 30 years.
 - (a) What amount is financed?

$$(0.15)(145000) = 21,750$$

 $145000 - 21750 = 123250$

\$ 123,250.°°

(b) What is the monthly payment?

$$R = \frac{123250(\frac{0.0435}{18})}{(1-(1+\frac{0.0435}{18})^{-360})} \approx 613.55$$
 \$613.55

(c) When the loan is paid off in 30 years, what will be the total interest paid?

$$(613.55)(360) - 123250$$

= 97628

\$ 97,688.00

2. (4 points) Referring to the loan above, compute the first 3 rows of the amortization schedule. Include the interest, amount paid to principal, and the outstanding balance.

PH ITSPATC	
BALANCE	
123,250	
DALMENT	