## Math 105 - Finite Mathematics - J-term 2017 Quiz 3 January 9, 2017

Marsa		
Name:		

**Problem 1.** What is the future value of \$100 invested for 4 years at 6% interest compounded (a) annually, (b) quarterly, (c) monthly?

(b) 
$$A = 4100 \left(1 + \frac{0.06}{4}\right)^{16} = 5126.90$$

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$$A = $100(1 + \frac{0.06}{12})^{48} = $127.05$$

**Problem 2.** In a suburb, housing costs have been increasing at 5.2% per year compounded annually for the past 8 years. A house worth \$260,000 now would have had what value 8 years ago?

$$P = $173,319.50$$