

San José State University
Fall 2015
Math-8: College Algebra
Section 03: MW noon–1:15pm
Section 05: MW 4:30–5:45pm

Quiz #3

Helpful Formulas

$$A = P(1 + rt)$$

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

1. Use the lowest common denominator method to perform the following addition. For full credit, make sure that you find the LCD, perform the operation, and then simplify the result (if necessary) using prime factorization.

$$\frac{5}{12} + \frac{7}{18} - \frac{11}{24}$$

2. For simple interest, interest is paid on the _____only. For compound interest, interest is paid on the _____and _____.

3. Jack puts \$5,000 into a savings account that has a yearly interest rate of 2% and compounds monthly. What is the value of the account after 10 years?

4. Solve for x.

$$\frac{[5x(x+1)^2]^2}{x^2(x+1)^5} = -\frac{3}{x}$$