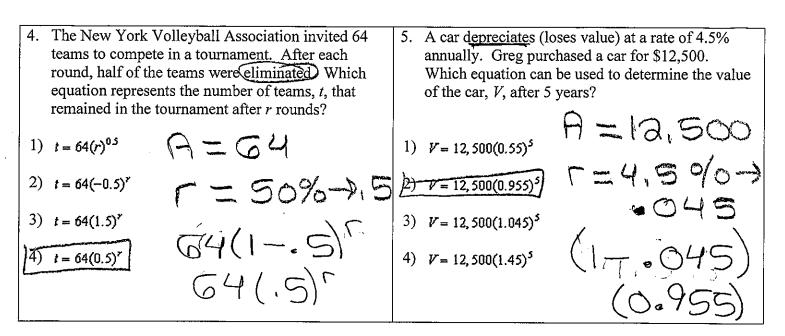
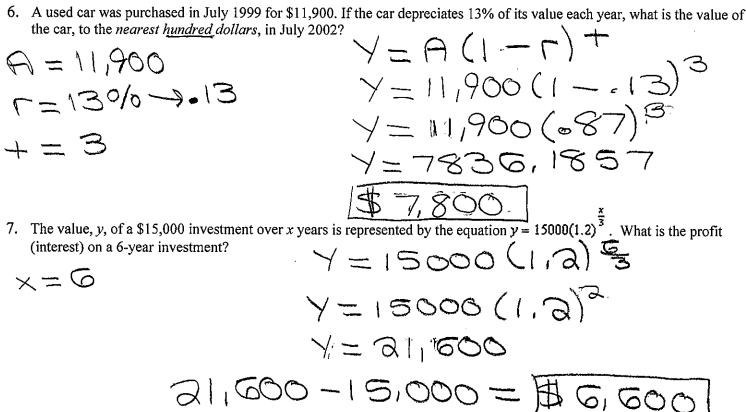
Name:UNIT 5	Date:
+=3	
1. The breakdown of a sample of a chemical compound is represented by the function $p(t) = 300(0.6)^t$ , where $p(t)$ represents the number of milligrams of the substance and $\ell$ represents the time, in years. In the function $p(t)$ , explain what 0.6 and 300 represent. $P(+) = 300 (-6) + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + $	
<ol> <li>Milton has his money invested in a stock portfolio. The value, ν(x), of his portfolio can be modeled with the function ν(x) = 30,000(0.78)<sup>x</sup>, where x is the number of years since he made his investment. Which statement describes the rate of change of the value of his portfolio?</li></ol>	3. The equation $A = 1300(1.02)^7$ is being used to calculate the amount of money in a savings account. What does 1.02 represent in this equation?  1) 0.02% decay 2) 0.02% growth 3) 2% decay 4) 2% growth 5 Crowth





8. A bank is advertising that new customers can open a savings account with a  $3\frac{3}{4}\%$  interest rate compounded annually. Robert invests \$5,000 in an account at this rate. If he makes no additional deposits or withdrawals on his account, find the amount of money he will have, to the *nearest cent*, after three years.

