



- \_\_\_\_\_ 5. In a lab, 530 cells are present at the beginning of an experiment. During the first 8 hours, the number of cells increased by 9% each hour. Write an exponential model giving the number of cells  $y$  present  $t$  hours after starting the experiment. Estimate the time when the number of cells is 1060.
- a.  $y = (530 \bullet 1.09)^t$ ; after about 1 hour      c.  $y = 530(0.91)^t$ ; after about 0.8 hour  
b.  $y = 530(0.09)^t$ ; after about 9 hours      d.  $y = 530(1.09)^t$ ; after about 8 hours
- \_\_\_\_\_ 6. The number of fish in a pond triples every 4 years. By what percent does the population change each year?
- a. 76% growth      c. 31.6% growth  
b. 31.6% decay      d. 131.6% growth



**Exponential functions 01 Class Time Examples**  
**Answer Section**

1. D
2. A
3. C
4. C
5. D
6. C

