

4. $y = ab^x$

$y = 0.01(2)^7$

$y = \$1.28$

$y = 0.01(2)^{25}$

$\$335,544.32$

$y = 0.01(2)^{19}$

$y = \$5242.88$

$$5. y = ax^x$$

$$y = \frac{1}{16} (2)^2$$

$$y = \frac{1}{16} \times \frac{4}{1}$$

$$y = \frac{4}{16}$$

$$y = \frac{1}{4}$$

$$y = ax^2$$

$$y = \frac{1}{16} (2)^4$$

$$y = \frac{16}{16}$$

$$y = 1$$

$\frac{1}{4}$ of the p and 15
 converted after 6 days

7. Car depreciates 20% per year

$$y = 100(.8)^3$$

$$y = 51.2\%$$

$$y = 100(.8)^4$$

$$y = 40.9\%$$

$$y = (100)(.8)^7$$

$$y = 20.9\%$$

1) Cells in a culture grow by 3.45 per day
Number of cells: $N = 1000 (3.45)^d$

how many cells after 1 day? 5 days?

2) Deer population declining by 2.2% per year
 $P = 240 (0.978)^n$

What will be the expected deer population after 8 years?