

Solver:

$$0 = P - Q e^{-RT}$$

$$P = 1999$$

$$Q = 1900$$

$$R = ? \text{ (calculator center)}$$

$$T = 2.5$$

$$R = \neq .0203$$

$$P = Q e^{RT}$$

$$1999 = 1900 e^{R(2.5)}$$

(A)

$$\frac{1999}{1900} = e^{R(2.5)}$$

$$\ln\left(\frac{1999}{1900}\right) = \ln(e^{R(2.5)})$$

$$R(2.5) = \ln\left(\frac{1999}{1900}\right)$$

(A)

$$R = \frac{\ln\left(\frac{1999}{1900}\right)}{2.5}$$

$$P = 99$$

$$Q = 100$$

$$R = -\cancel{.01005} - .01005 = 1.005\% \text{ decay}$$

$$T = 1$$

computer drops  $\frac{20\%}{80\%}$  value every year keep.

$$P = Q (.8)^T$$

$$Q (.8)(.8)(.8) = .51Q$$

# Using Calculator Problem

$$(\log x)^2 - \log x^9 = 10$$

$$(\log x)^2 - 9 \log x = 10$$

$$x = .1$$

$$x = 10, \text{ Billion } \textcircled{\text{frown}}$$

$$u = \log x$$

$$u^2 - 9u = 10$$

$$u^2 - 9u - 10 = 0$$

$$(u - 10)(u + 1) = 0$$

$$u = 10 \quad u = -1$$

$$\log x = 10 \\ x = 10^{10}$$

$$\log_{10} x = -1 \quad \textcircled{PI} \\ x = 10^{-1}$$

GROUP NAME:	Student Names (First and Last)
Logo:	Speaker/Presenter: <u>Danyan Zhou</u>
Date: <u>10/14/2013</u>	Writer/Prep: <u>Valerie Spengler</u>
Topics:	QC/Leader: _____

Instructions:

17. Solve  $e^y = 5$

$$y = \ln 5 \approx 1.61$$

(P<sub>5</sub>) base  
calculator

$$3^{-6x} = 2$$

$$\log_3^{-6x} = \log_3 2$$

(P<sub>5</sub>) base

$$(-6x) \log_3 = \log_3 2$$

(P<sub>3</sub>) ladder

$$x = \frac{\log_3 2}{-6 \cdot \log_3} \approx -0.11$$

(A) calculator



<p><b>GROUP NAME:</b></p> <p>Logo: <u>                    </u></p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>                    </u></p>
<p>Date: <u>                    </u></p> <p>Topics: <u>                    </u></p>	<p>Writer/Prep: <u>                    </u></p> <p>QC/Leader: <u>                    </u></p>

**Instructions:**

DAY 14, #5

COMPOUNDED QUANTITY

SOLVE FOR P

$$P = \$5606.57$$

$$Q = \$2000$$

$$R = 0.15$$


$$T = 7 \text{ years}$$

$$P = Q \left( 1 + \frac{R}{n} \right)^{nT}$$

$$P = (2000) \left( 1 + \frac{0.15}{4} \right)^{4(7)}$$

$$P = 2000 (1.0375)^{28}$$

$$P = 5606.57$$

<p>GROUP NAME: <u>Math 1.5</u></p> <p>Logo: </p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>Shanon Jones</u></p>
<p>Date: <u>10/14</u></p> <p>Topics: <u>Expanding Log</u></p>	<p>Writer/Prep: <u>Prue Turkan</u></p> <p>QC/Leader: _____</p>

Instructions:

6 Use the properties of log to expand  $\log(xz^7)$

P2  $\log x + \log z^7$

P3  $\log x + 7 \log z$

7 Use the prop  $\left( \frac{y^5}{z^3 \sqrt{x}} \right)$

P2  $\Rightarrow \log y^5 - \log z^3 - \log \sqrt{x}$

P3  $5 \log y - 3 \log z - \frac{1}{2} \log x$

<p>GROUP NAME: <u>                    </u></p> <p>Logo: <u>                    </u></p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>                    </u></p>
<p>Date: <u>                    </u></p> <p>Topics: <u>                    </u></p>	<p>Writer/Prep: <u>                    </u></p> <p>QC/Leader: <u>                    </u></p>
<p>Instructions: <u>                    </u></p>	
<p><i>[Handwritten notes and diagrams, including mathematical symbols like pi and sigma, and some illegible text.]</i></p>	

<b>GROUP NAME:</b>	<b>Student Names (First and Last)</b>
<b>Logo:</b>	<b>Speaker/Presenter:</b> _____
<b>Date:</b> _____	<b>Writer/Prep:</b> _____
<b>Topics:</b>	<b>QC/Leader:</b> <u>Harrison Sedor</u> <u>Joe Kparwan</u>

**Instructions:**

*[Faint handwritten notes and diagrams are visible in this section, including a diagram of a triangle with vertices labeled A, B, and C, and some illegible text.]*



GROUP NAME:	Student Names (First and Last)
Logo:	Speaker/Presenter: _____
Date: _____	Writer/Prep: <u>Trey</u>
Topics:	QC/Leader: <u>Dominique</u>

## Instructions:

Math 0

$$\text{Eqn} : 0 = P - Q(1 + R/N)^{NT}$$

$$P = 63,000$$

$$Q = 39,000$$

$$R = .05$$

$$N = 1$$

$$T = \text{Alpha Enter}$$

$$T = 9.82 \text{ years}$$

$$63 = 39 (1.05)^T$$

$$\frac{63}{39} = 1.05^T$$

$$T = \log_{1.05} \left( \frac{63}{39} \right)$$

~~P4~~

$$T = \frac{\ln(63/39)}{\ln(1.05)}$$

<p><b>GROUP NAME:</b></p> <p>Logo:</p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>Franklyn</u></p>
<p>Date: _____</p> <p>Topics:</p>	<p>Writer/Prep: <u>Scott Sliker</u></p> <p>QC/Leader: <u>Val Smeltzer</u></p>

Instructions:

①  $6000 * .04 = 240 * 6 \text{ years} = 1440$

$$I = Prt$$