$$O = 7e^{-pot} = 2000$$

$$implies = 6 = 6 \quad and = 7 = 0$$

$$so \quad 9.54\times10^{-5} \cdot 6$$

$$Q = 7(4.54\times10^{-5})^{-5}$$

$$\leq Q = 4(8)^{1.3} = Q = ae^{kt}$$
 $| \text{Implies } a = 4$
 $8^{1.3} = e^{kt}$
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 $| \text{In } 8^{1.3} =$

17
$$3^{4\log x} = 5$$

 $\log 3^{4\log x} = \log 5$
 $\log x \log 3 = \log 5$
 $\log x = \frac{\log 5}{\log 3}$
 $\log x = \frac{\log 5}{\log 3}$

$$\frac{18}{100^{2x+3}} = \frac{310,000}{10,000}$$

$$10^{2(2x+3)} = (10^4)^{1/3}$$

$$10^{4x+6} = 10^{4/3}$$

$$10^{9} = 10^{9} = 10^{9}$$

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$$\frac{21}{\log x^2 + \log x^3} = 3$$

$$\frac{\log (100x)}{2\log x + 3\log x} = \frac{3}{\log (100) + \log x}$$

$$\frac{5\log x}{2 + \log x} = 3$$

$$2 + \log x$$

 $5 \log x = 6 + 3 \log x$
 $2 \log x = 6$
 $\log x = 3$
 $\log x = 3$
 $\log x = 10^{3}$
 $2 = 1,000$

```
40,50,51,63
   9 B(+)=5000 (1.06) + B(+)=5000 ext
              For these to model the same phonomena.
                           er = 1.00
                          Ine = In 1.06
                             K= In 1.06 2 0.05827
                     5,827 % continuous growth.
                                   -> 7.2% condación growth.
       BG)= 7500 e 0,0724
                               implies b=e0.072 21.07466
        B(+)= 7500 yt
                                      , which corresponds to an
                                           effective annual growth rate
          BLED
                                             of 7.460%.
         R = 50 (1.029) t (Erehwan)
         C = 45 (1.032) ( Ecalpon)
         when does R=C
                      50(1.029) = 45 (1.032)
                          (1.032) t = 9 (1.032) t
                         \\ \left(\frac{1.029}{1.037}\right)^t = \frac{4}{10}
                           log (1.029) t = log 10
                          + log(1029) = log to
                              t = \frac{\log \frac{\pi}{10}}{\log(\frac{1029}{1.024})} \approx \frac{-0.04576}{-0.001264} \approx [36.19 \text{ years}]
```

C = ZR $45(1.032)^{t} = 100(1.029)^{t} \implies \frac{9}{100} = (\frac{1.019}{1.032})^{t} \implies t = \frac{109}{100} (\frac{9}{1.032})^{t} = \frac{1}{100} (\frac{1.029}{1.032})^{t} = \frac{1}{100} (\frac{1.029}{1.032}$

$$=$$
 $P(4) = 5(2)^{t/4}$

9 7 years.
$$P(7) = 5(z)^{3/4} = 5(z) = 10$$
 double of 5!

$$b = R(t) = ab^{t}$$
 $a = 5$ $b = 2^{1/4} \approx 1.10409 \rightarrow 10.409\%$ annual annual growth

$$\frac{1}{c}$$
 linch = $\frac{1}{12}$ ft. $-\frac{1}{12}$ = $\frac{(0.90)^{11}}{12}$ = $\frac{(0.90)^{11}}{12}$

.