

Textbook Questions = Solving Exponential & Logarithmic Equations

Do CIRCLED QUESTIONS FIRST.

5.4p. 419

5.5p. 430

11.

-5

7.

\$1000 3.5% 12.8yr. 14.

18.

$e^{-7} \approx 0.000912$

9.

\$750 8.9438%, 7.75yr. 18

20.

0.008

11.

500, 11.0%, 6.3yr., \$150

29.

$\frac{\ln 5}{\ln 3} \approx 1.465$

18.

6.94, 6.63, 6.602, 6.60

37.

2

28.

5715 3% 2.66yr

51.

0

35.

a, Dec
2000 = 2,430,000
b, 2003 = 2,408,950
c, 2018

57.

$\ln 2 \approx 0.693$

38.

$K = 0.1337$
\$ 144.98 million

75.

$e^{-3} \approx 0.050$

61.6hr

81.

$\frac{1}{5} \approx 0.2$
 $e^{0.2} \approx 1.221$

40.

83.

$e^2 \approx 7.389$

43.

a, $V = -6394t + 30,788$

b, $V = 30,788 e^{-0.268t}$



t	1	3
V_{lin}	24394	11606
V_{exp}	23550	13779

93.

no solution

Answers to every questions

5.4. 18: $e^{-7} \approx 0.000912$. 20: 0.008
 5.5. 18: 6.94, 6.63, 6.602, 6.60
 28: 5715, 3%, 2.66yr.
 38: $K = 0.1337$, \$ 144.98 million, 40: 61.6 hours