

Chapter 7 Review Extra Practice Answers

1. a) $\frac{1}{9^2}$

b) $\frac{1}{(6^8)}$

c) $\left(\frac{5}{4}\right)^{78}$

d) $\frac{1}{7^{13}}$

2. a) $\frac{1}{4^{\frac{11}{72}}}$

b) $\frac{1}{5^{\frac{1}{28}}}$

c) $\frac{1}{9^{\frac{12}{7}}}$

d) $8^{\frac{2}{105}}$

3. a) $x = 3$

b) $x = \frac{1}{5}$

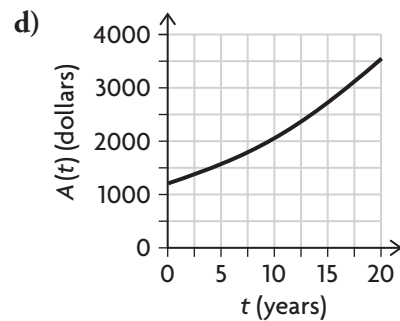
c) $x = \frac{1}{6}$

d) $x = 1024$

4. a) \$1200

b) 5.5%

c) \$2678.97



e) 13 years

5. a) About 22 years

b) $P(t) = 100(0.5)^{\frac{t}{22}}$

c) 4%