

## Lesson 7.1.2

**7-24. See below:**

a. See table below.  $y = 1.2(3.3)^x$

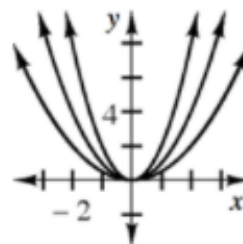
$x$	$y$
0	1.2
1	3.96
2	13.068
3	43.1244
4	$\approx 142.31$

b. See table below.  $y = 5 \cdot 6^x$

$x$	$y$
0	5
1	30
2	180
3	1080
4	6480

**7-25.** Answers vary but should include a table, a graph, and a situation.

**7-26.** They are all parabolas, with  $y = 2x^2$  rising most rapidly and  $y = \frac{1}{2}x^2$  most slowly. See solution graph at right.



**7-27.** 9 weeks

**7-28. See below:**

a. arithmetic,  $t(n) = 3n - 2$

b. neither

c. geometric,  $r = 2$

d. arithmetic,  $t(n) = 7n - 2$

e. arithmetic,  $t(n) = n + (x - 1)$

f. geometric,  $r = 4$