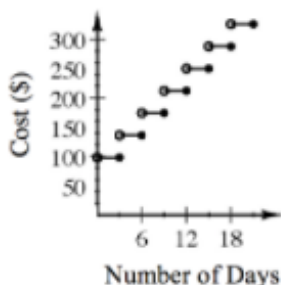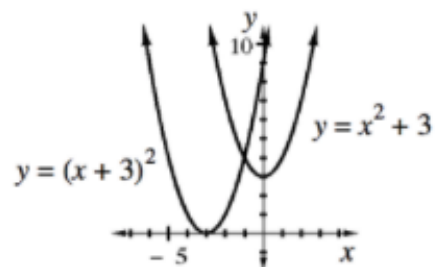**7-61.**

7-62. $y = 4(1.75)^x$

7-63. See below:

a. $y = 500(1.08)^x$

b. $1712.97

c. $x \geq 0, y \geq 500$

7-64. Both have the same shape as $y = x^2$, but one is shifted up 3 units and the other is shifted left 3 units. See graphs at right.

7-65. See below:

a. -10

b. $\frac{1}{2}$

c. -5

d. 3

7-66. See below:

a. $a = 0$

b. $m = \frac{16}{17}$

c. $x = 10$

d. $x = 9, -3$