

**1-6. See below.**

a.  $y = x^2 - 6$  and then  $y = \sqrt{x-5}$ .

b. Yes, reverse the order of the machines ( $y = \sqrt{x-5}$  and then  $y = x^2 - 6$ ) and use an input of  $x = 6$ .

**1-7. See below.**

a. 54

b.  $-7\frac{3}{5}$

c. 2

d. 2.93

**1-9. See below.**

a. -59

b. 17

c. -72

d. 6

e. -24

f. -25

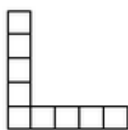
g. 25

h. -25

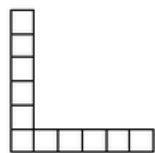
i. 7

**1-8. See below.**

a.



**Figure 4**



**Figure 5**

b. It grows by two tiles each time.

c. 1; The top and right tiles are removed, since the pattern is to add two tiles to expand each figure.

**1-10. See below.**

a.  $y = 1$

b.  $y = 3$

c.  $y = 9$