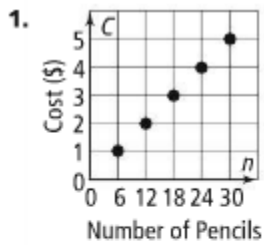
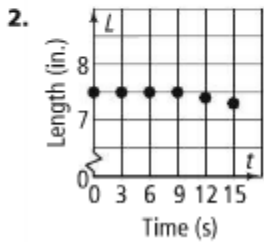


2.3 #s 1-11, 14

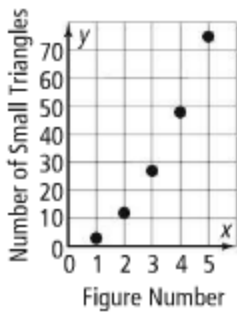


linear



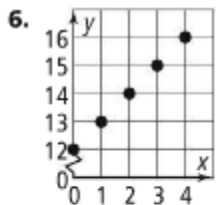
nonlinear

3. 48, (4, 48), 75, (5, 75); square the value of  $x$  and then multiply it by 3;  $y = 3x^2$



4.  $y = 4x^2$

5.  $y = 0.5x^2$



7.  $y = 3x - 2$

linear

8. C

9. a. linear function

b. nonlinear function

10. Only the first two pairs fit this rule. The rule that fits all the pairs is  $y = x^2 + 1$ .

11. Independent:  $r$ , dependent:  $V$ ; volume depends on the length of the radius.

14.  $A = 4r^2 - \pi r^2$