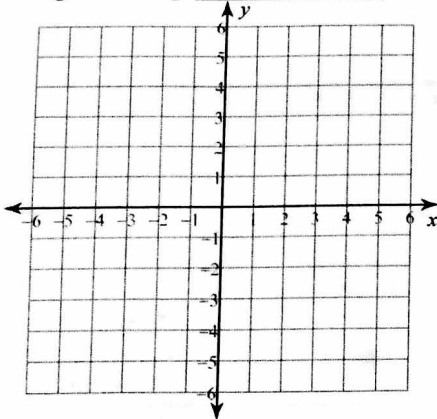


11.3

For each of the following, draw the basic function first in pencil, then graph the shifted function in colored pencil.

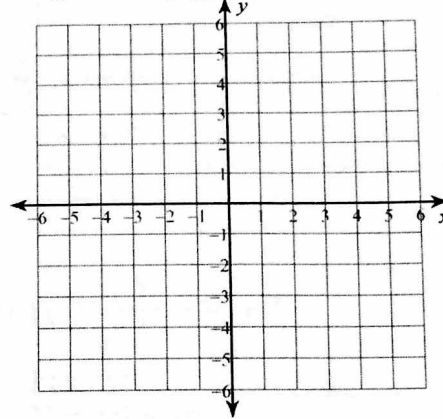
1) $f(x) = |x + 1| - 3$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____



2) $f(x) = (x - 1)^3 - 5$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____



Use the equation to answer the questions about the shift of the function.

3) $p(x) = -(x + 2)^2 - 5$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

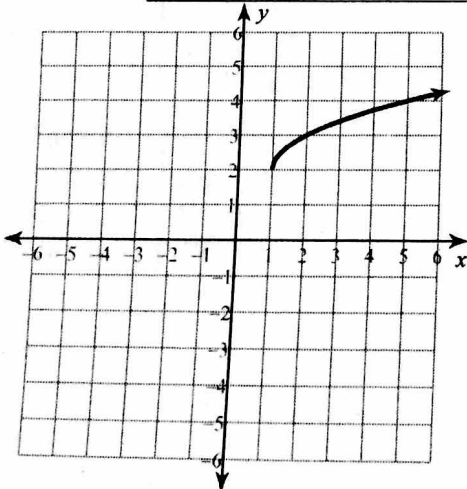
4) $p(x) = -\frac{1}{x - 3} + 5$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

Use the graph of the function to determine it's equation.

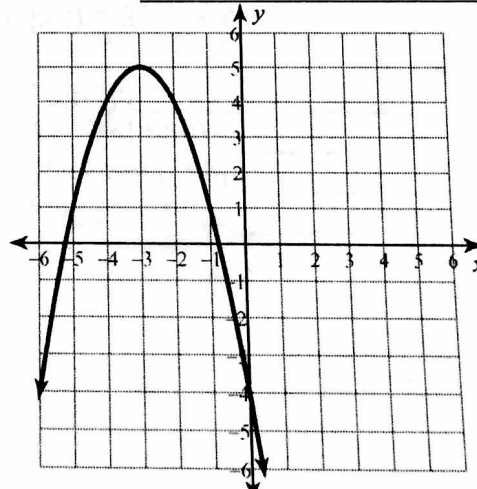
5) Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

Function: _____



6) Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

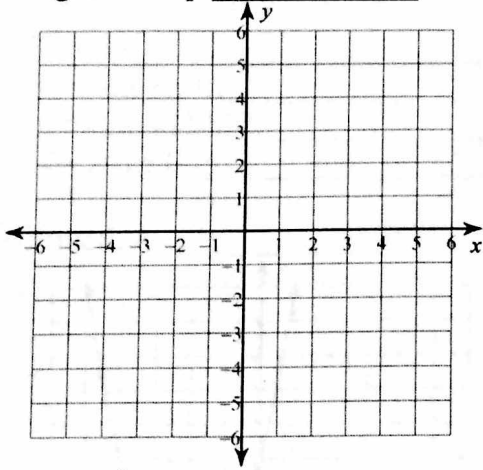
Function: _____



For each of the following, draw the basic function first in pencil, then graph the shifted function in colored pencil.

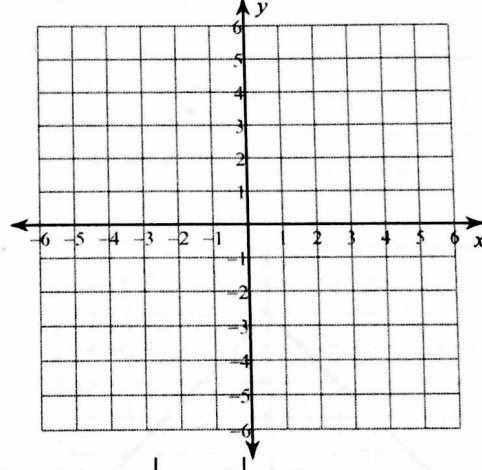
7) $g(x) = -(x - 3)^2 - 2$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____



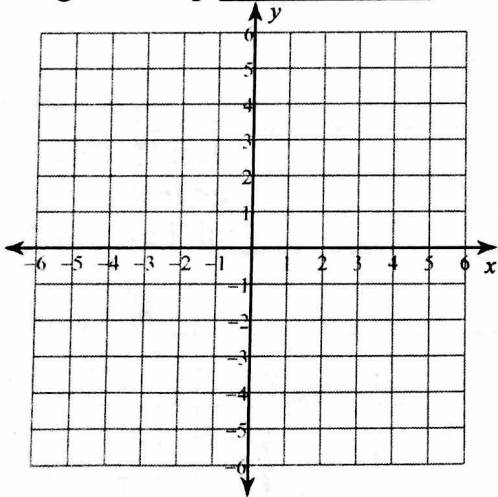
8) $h(x) = \sqrt{x + 5} + 2$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____



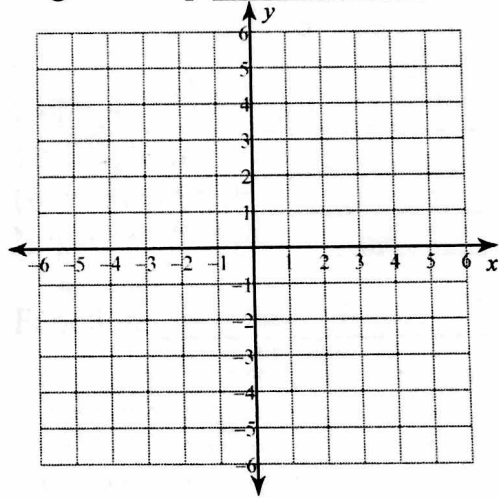
9) $p(x) = x^3 - 5$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____



10) $p(x) = -|x - 5| + 2$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____



11) $p(x) = \frac{1}{x + 2} - 1$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

12) $p(x) = 2^{x-3} + 4$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

13) $p(x) = -|x| + 3$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

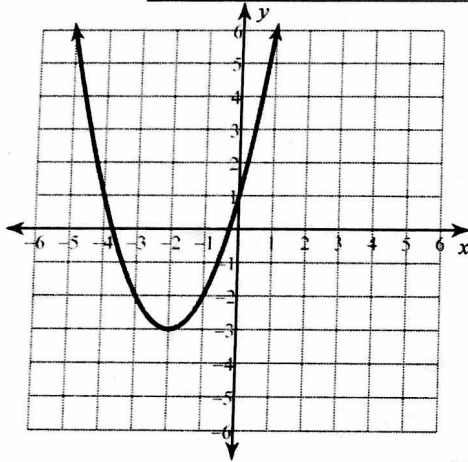
14) $p(x) = -x^2 - 4$

Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

Use the graph of the function to determine its equation.

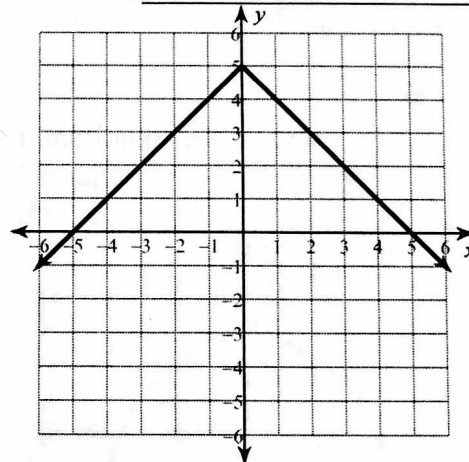
15) Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

Function: _____



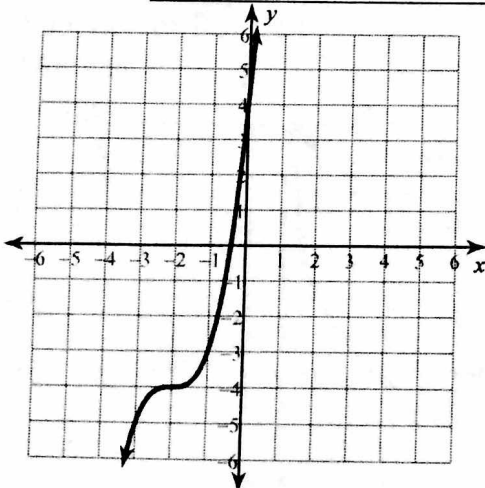
16) Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

Function: _____



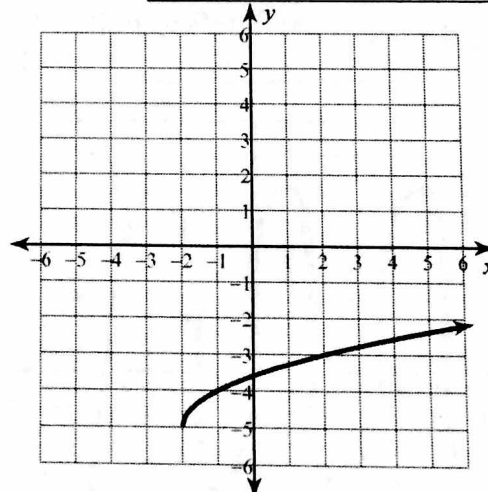
17) Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

Function: _____



18) Family: _____
 Vertical Shift: _____
 Horizontal Shift: _____
 Negative Flip: _____

Function: _____

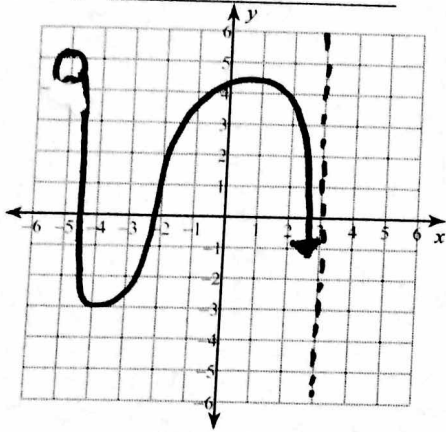


Circle if the graph represents a Function or a Relation and state its domain and range:

19) Function or Relation

Domain: _____

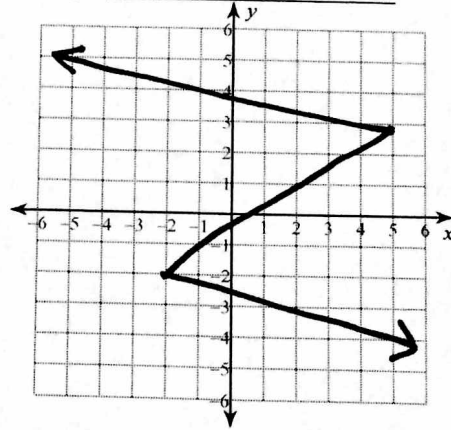
Range: _____



20) Function or Relation

Domain: _____

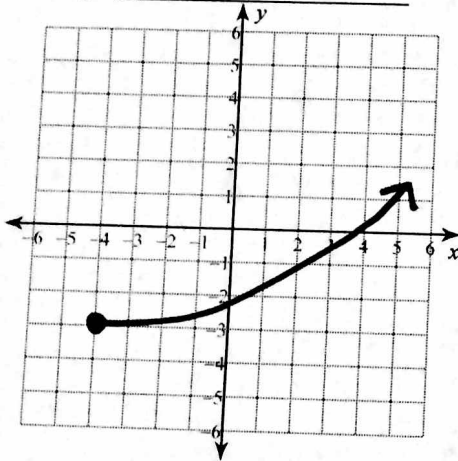
Range: _____



21) Function or Relation

Domain: _____

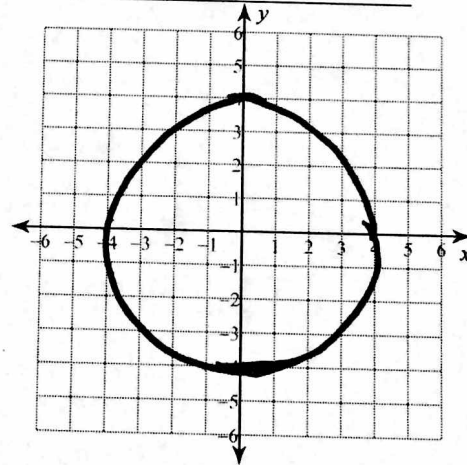
Range: _____



22) Function or Relation

Domain: _____

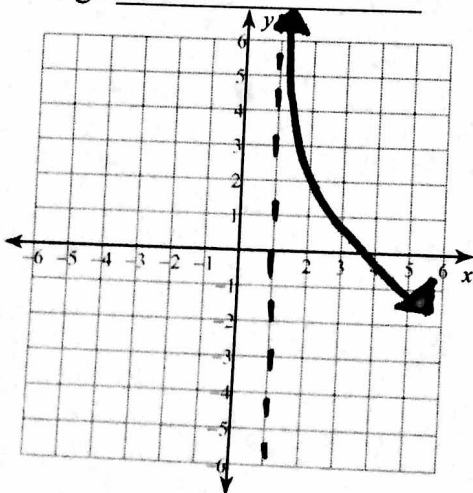
Range: _____



23) Function or Relation

Domain: _____

Range: _____



24) Function or Relation

Domain: _____

Range: _____

