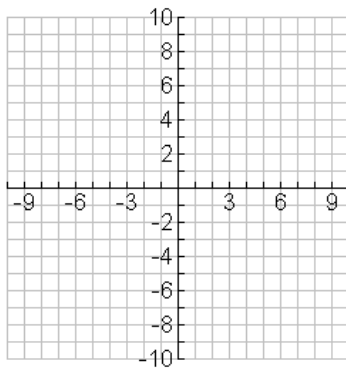


Graph the following functions without using technology. Feel free to use a graphing calculator to check your answer, but you should be able to look at the function and apply what you learned in the lesson to move its parent function. Also, state the domain and range for each function.

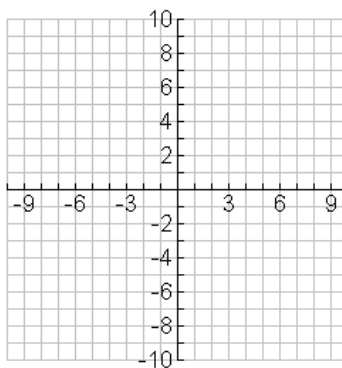
1. $f(x) = (x - 2)^2 + 4$

Domain: _____
Range: _____



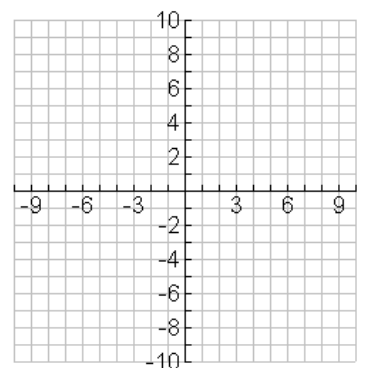
2. $f(x) = -(x - 3)^3 - 1$

Domain: _____
Range: _____



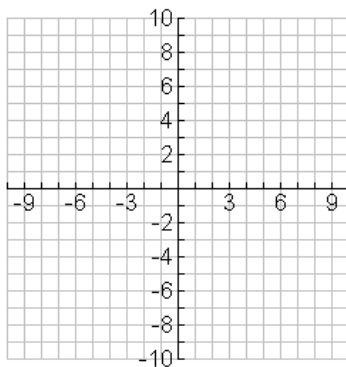
3. $f(x) = \sqrt{x + 1} + 4$

Domain: _____
Range: _____



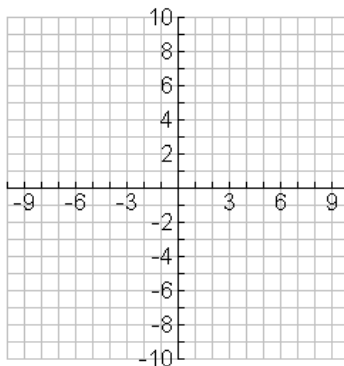
4. $f(x) = -\sqrt[3]{x - 1} + 5$

Domain: _____
Range: _____



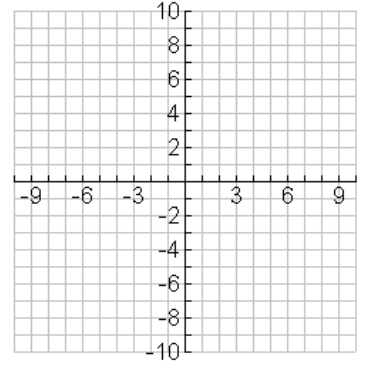
5. $f(x) = |x - 3| - 2$

Domain: _____
Range: _____



6. $f(x) = 2^{x+1} - 3$

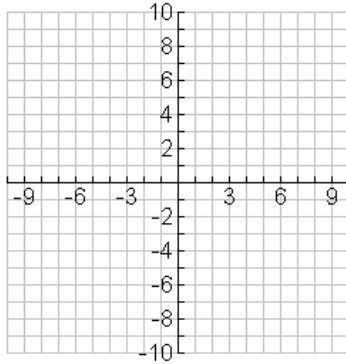
Domain: _____
Range: _____



7. $f(x) = -(x+5)^2 - 1$

Domain: _____

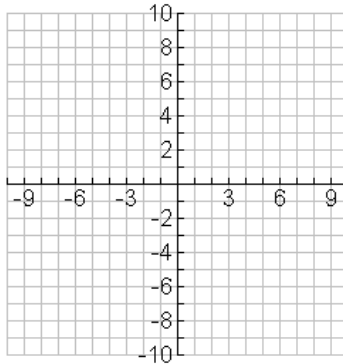
Range: _____



8. $f(x) = (x+3)^3 + 4$

Domain: _____

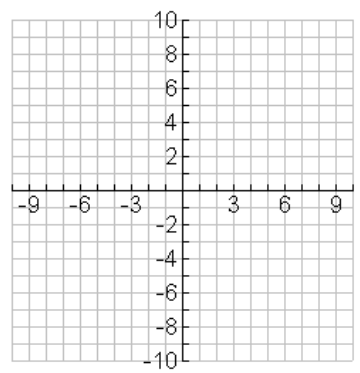
Range: _____



9. $f(x) = -\sqrt{x-3} - 6$

Domain: _____

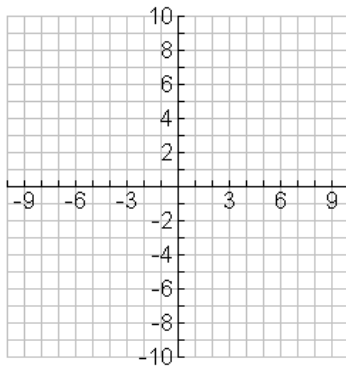
Range: _____



10. $f(x) = \sqrt[3]{x+2} - 4$

Domain: _____

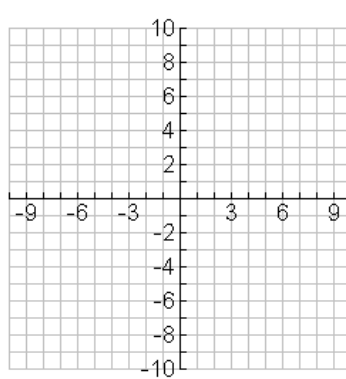
Range: _____



11. $f(x) = -|x+2| - 7$

Domain: _____

Range: _____



12. $f(x) = 2^{x-3} + 2$

Domain: _____

Range: _____

