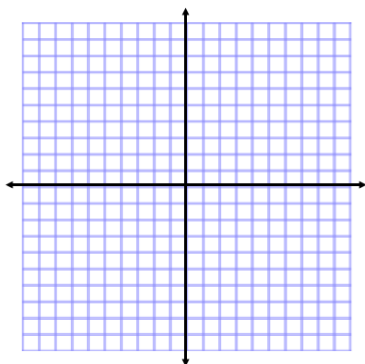


Give the name of the parent function and describe the transformation represented.

1. $g(x) = x^2 - 1$

Parent fxn: _____

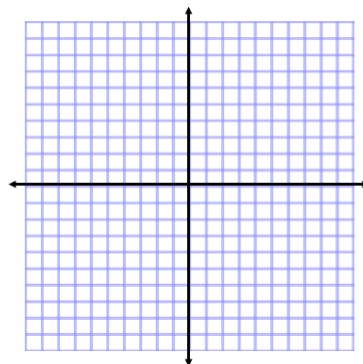
Transformations: _____



2. $f(x) = 2|x-1|$

Parent fxn: _____

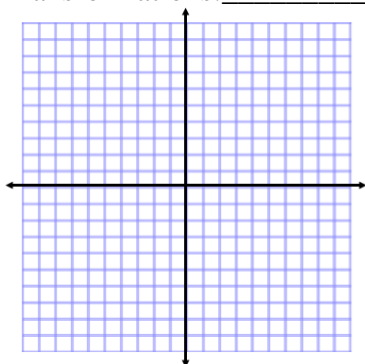
Transformations: _____



3. $h(x) = (x+4)^3 - 2$

Parent fxn: _____

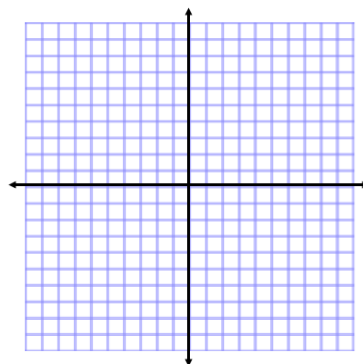
Transformations: _____



4. $g(x) = -2(x+1)^2 + 3$

Parent fxn: _____

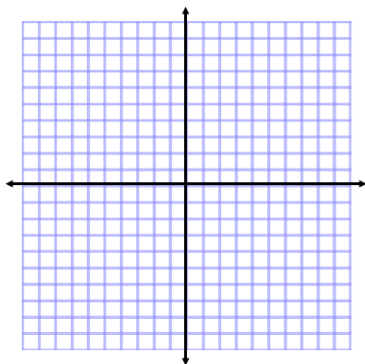
Transformations: _____



5. $g(x) = \sqrt{-3x+4}$

Parent fxn: _____

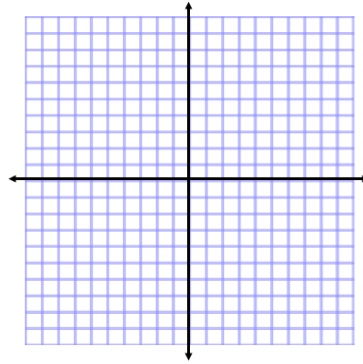
Transformations: _____

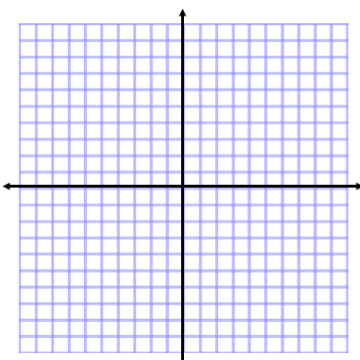
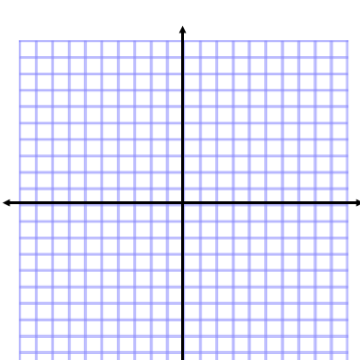


6. $f(x) = -\sqrt{x+5} - 4$

Parent fxn: _____

Transformations: _____



<p>7. $h(x) = 1/2(x - 3)^2 + 1$</p> <p>Parent fxn: _____</p> <p>Transformations: _____</p> 	<p>8. $h(x) = - x - 2$</p> <p>Parent fxn: _____</p> <p>Transformations: _____</p> 
--	--

Given the parent function and a description of the transformation, write the equation of the transformed function, $f(x)$.

11. **Absolute Value:** vertical shift up 5, horizontal shift right 3. _____

12. **Linear (line):** vertical compression by $\frac{2}{5}$ _____

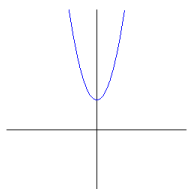
13. **Square Root:** flipped over the x axis, vertical shift down 2 _____

14. **Cubic:** vertical stretch by 8, vertical shift up 4 _____

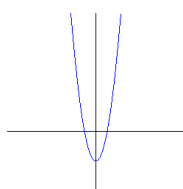
15. **Quadratic:** horizontal stretch by 5, horizontal shift left 8. _____

16. Which graph best represents the function $f(x) = 2x^2 + 2$?

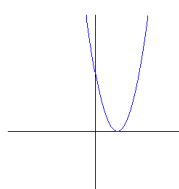
a.



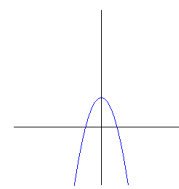
b.



c.



d.



e. NONE