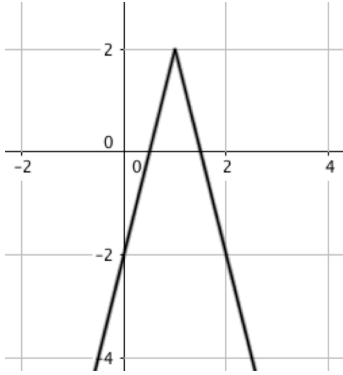
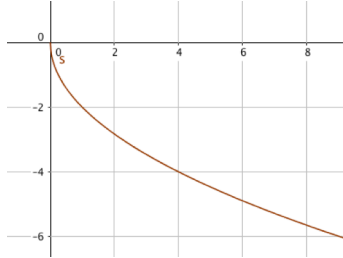


TRANSFORMATONS & GRAPHS

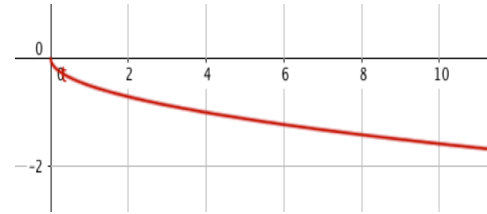
Match the graph to the equation by writing the letter of the equation under the graph.



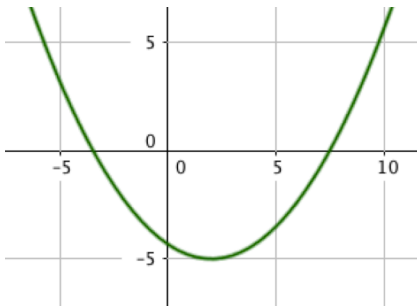
1. _____



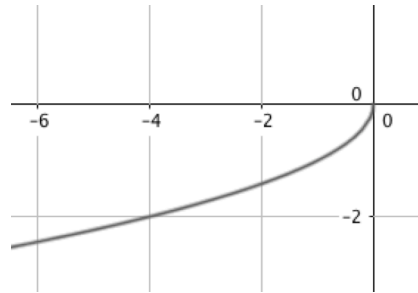
5. _____



8. _____

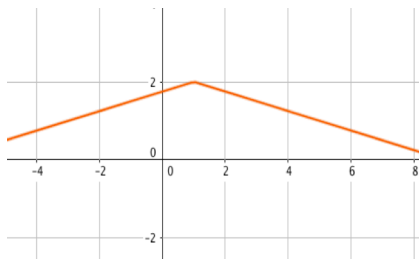


2. _____

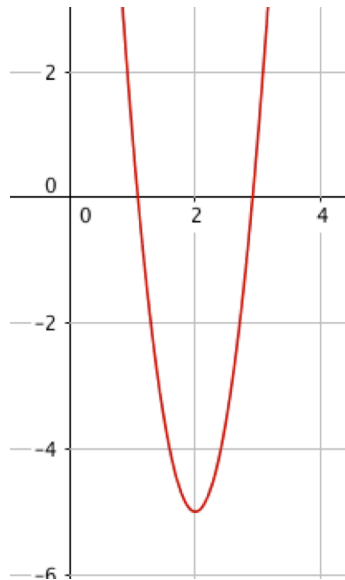


6. _____

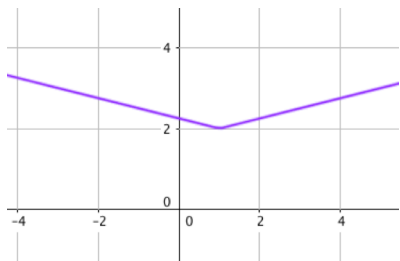
- a. $g(x) = \frac{1}{6}(x - 2)^2 - 5$
- b. $h(x) = -\frac{1}{4}|x - 1| + 2$
- c. $j(x) = -\sqrt{-x}$
- d. $k(x) = -4|x - 1| + 2$
- e. $m(x) = 6(x - 2)^2 - 5$
- f. $n(x) = -2\sqrt{x}$
- g. $p(x) = -\frac{1}{2}\sqrt{x}$
- h. $q(x) = \frac{1}{4}|x - 1| + 2$



3. _____



7. _____

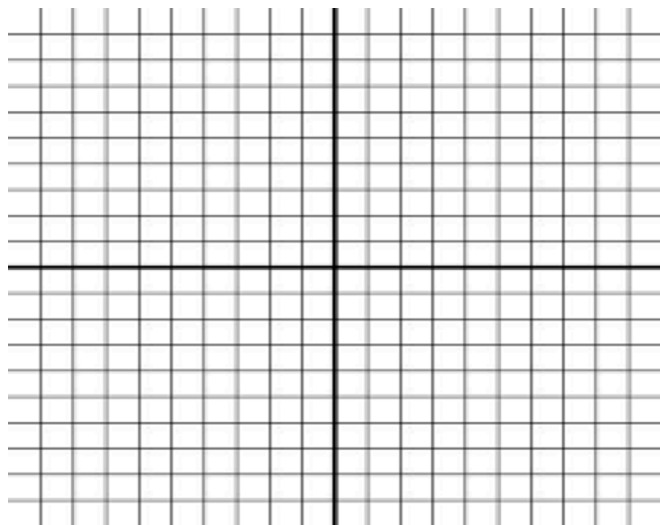


4. _____

For each function, state the parent function and describe the transformations. Then graph each parent function and the transformed function on the same graph

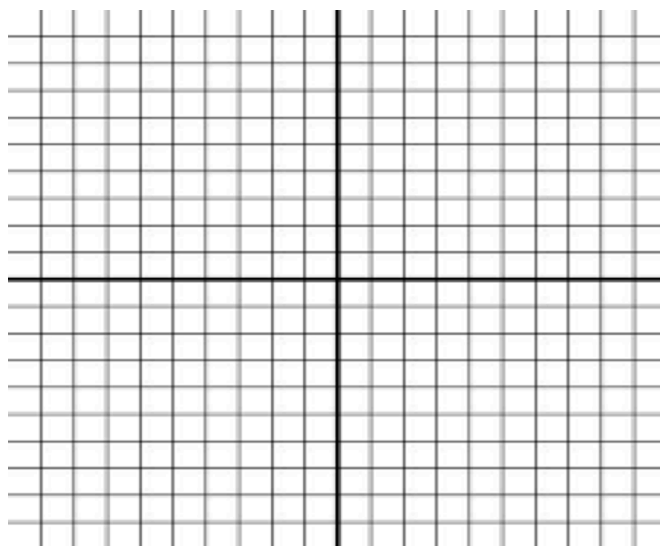
1. $g(x) = -3\sqrt[3]{x} - 2$ Parent function is $f(x) =$ _____

Transformations _____



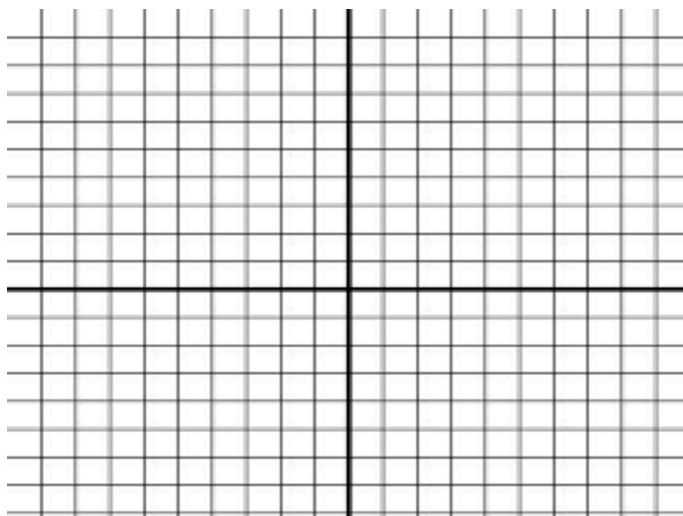
2. $h(x) = \frac{1}{2}(x + 2)^2 - 4$ Parent function is $f(x) =$ _____

Transformations _____



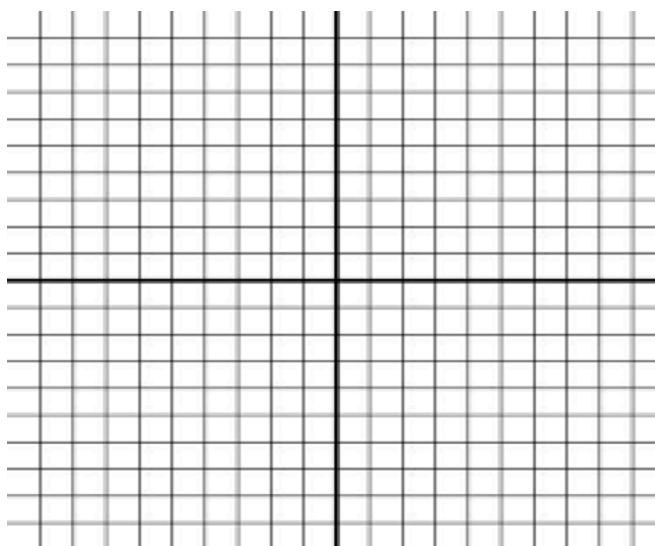
3. $j(x) = -4|x| + 2$ Parent function is $f(x) = \underline{\hspace{2cm}}$

Transformations _____



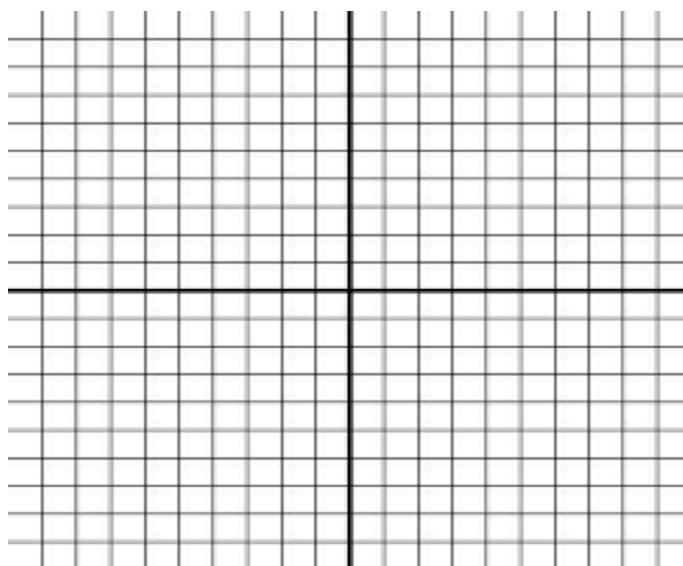
4. $k(x) = -2\sqrt{-x} - 2$ Parent function is $f(x) = \underline{\hspace{2cm}}$

Transformations _____



5. $p(x) = \frac{1}{2}(x - 4)^3$ Parent function is $f(x) =$ _____

Transformations _____



6. $q(x) = -4\sqrt{x + 2} + 1$ Parent function is $f(x) =$ _____

Transformations _____

