

Name: Key Hour: Date:

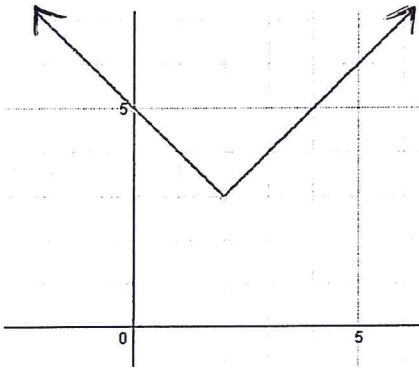
Parent Functions Practice:

Name the family from which the given function came.

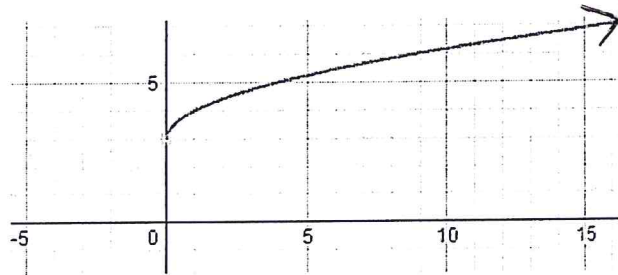
1. $g(x) = x^2 - 1$ Polynomial (even)
2. $f(x) = 2|x-1|$ Absolute value
3. $h(x) = \sqrt{x-2}$ Radical (even)
4. $g(x) = x^3 + 3$ Polynomial (odd)
5. $f(x) = 2x + 7$ Linear

Determine the parent function of the transformed graph.

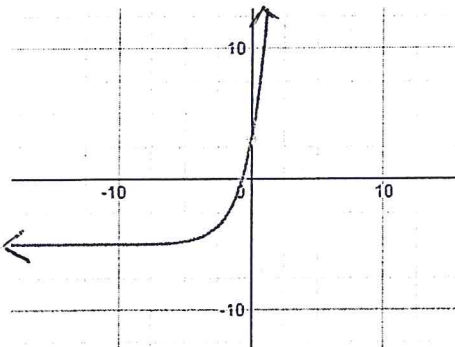
Parent $f(x) = |x|$



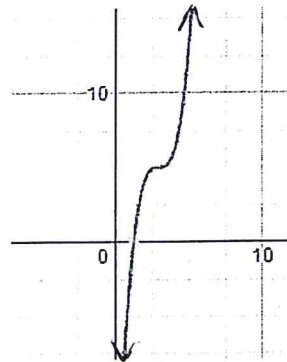
Parent $f(x) = \sqrt{x}$



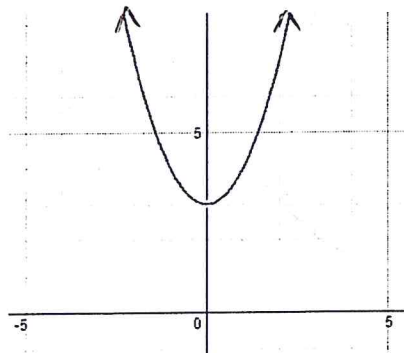
Parent $f(x) = 2^x$



Parent $f(x) = x^3$

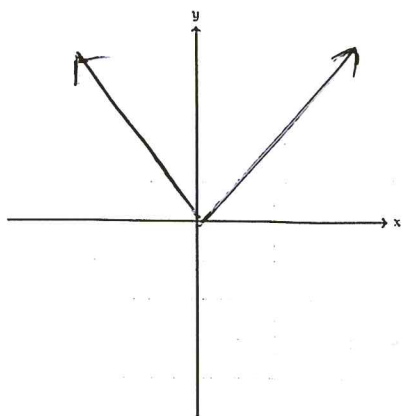


Parent $f(x) = x^2$

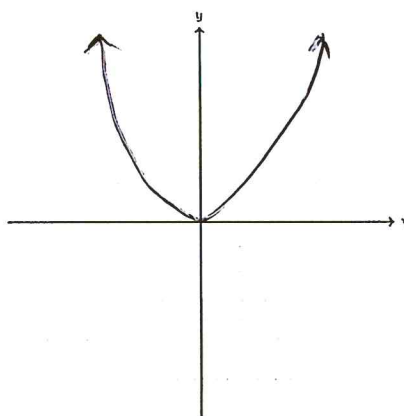


Write the equation of the parent function and sketch its graph.

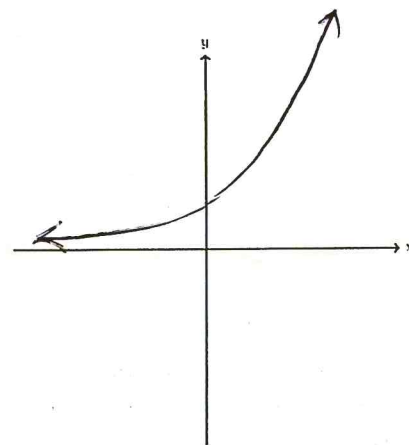
Absolute value $f(x) = |x|$



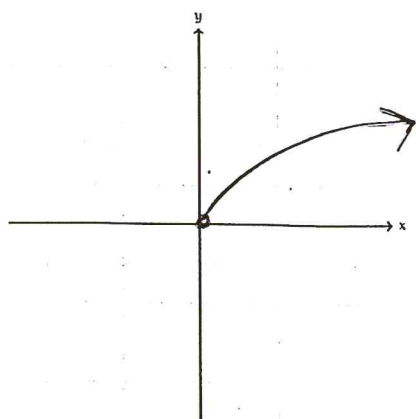
Polynomial (even) $f(x) = x^2$



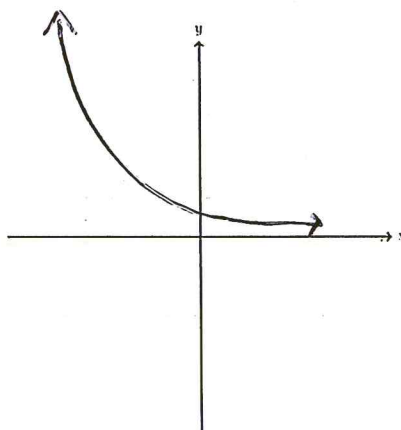
Exponential Growth $f(x) = 2^x$



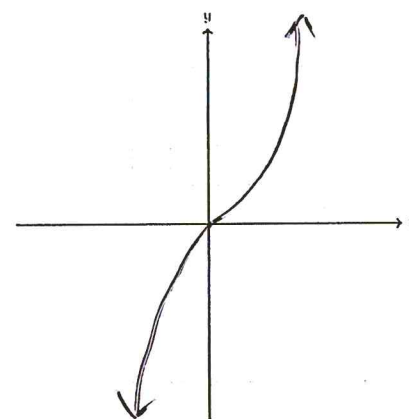
Radical (even) $f(x) = \sqrt{x}$



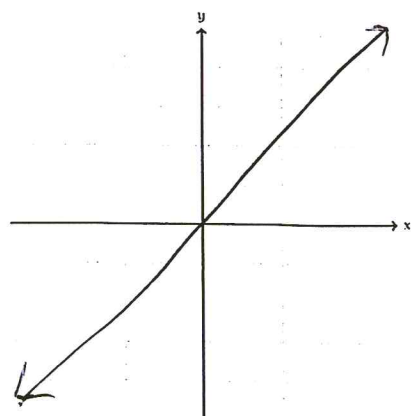
Exponential Decay $f(x) = (\frac{1}{2})^x$



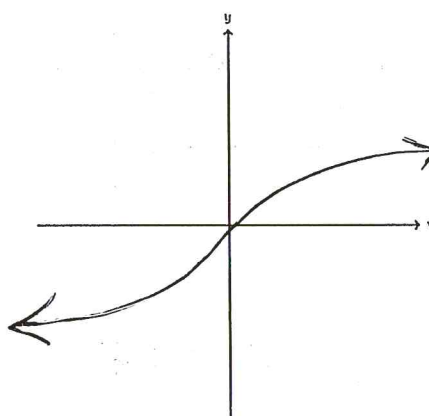
Polynomial (Odd) $f(x) = x^3$



Linear $f(x) = x$



Radical (odd) $f(x) = \sqrt[3]{x}$



Logarithm $f(x) = \log x$

