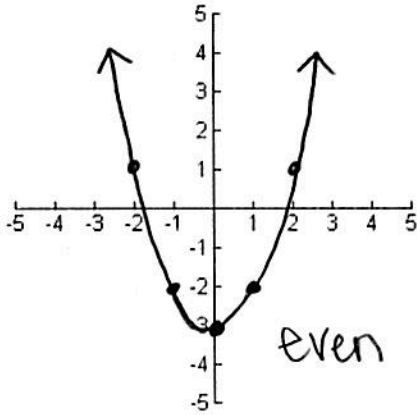
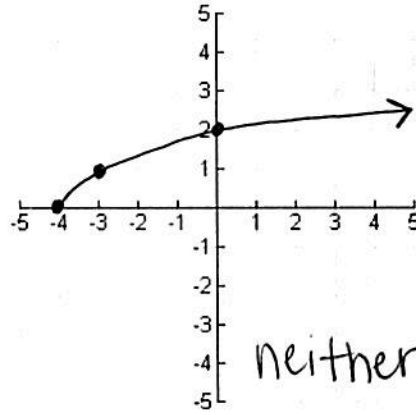


Graph the following functions with at least 2 accurate points. Tell whether they are even, odd, or neither.

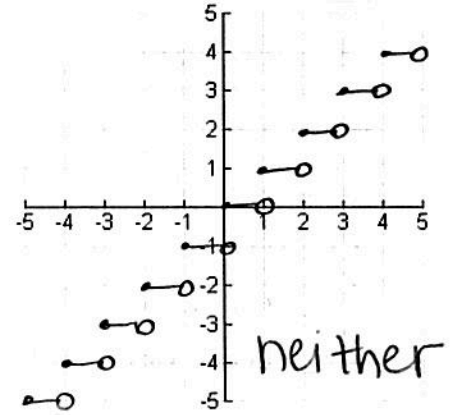
1)  $y = x^2 - 3$



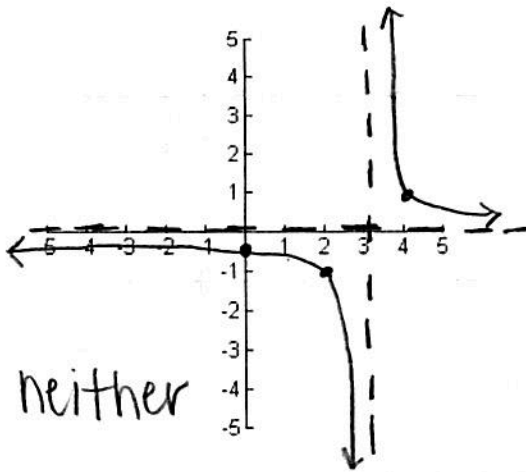
2)  $y = \sqrt{x+4}$



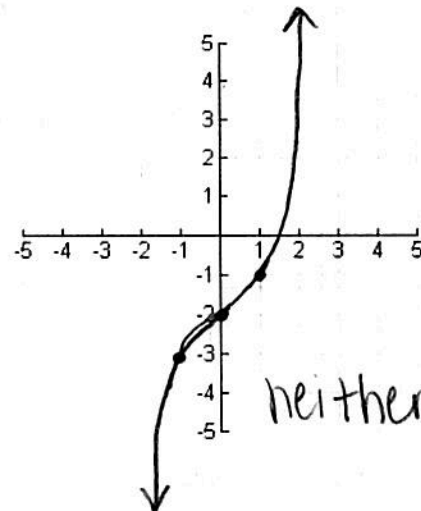
3)  $y = [x]$



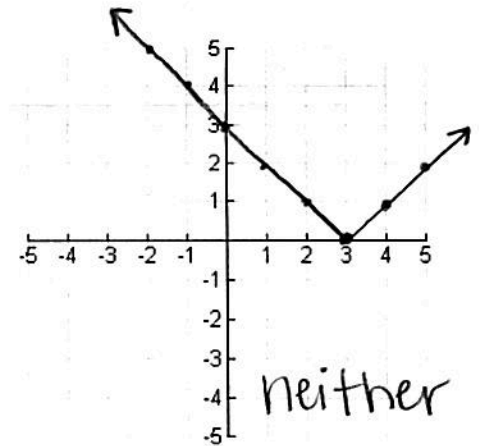
4)  $y = \frac{1}{x-3}$



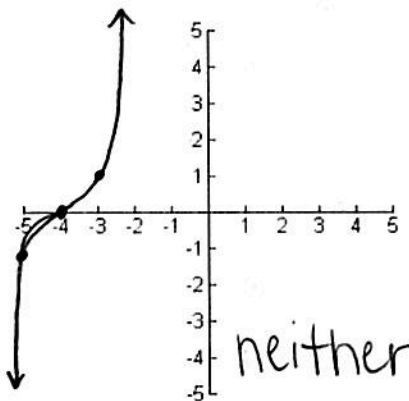
5)  $y = x^3 - 2$



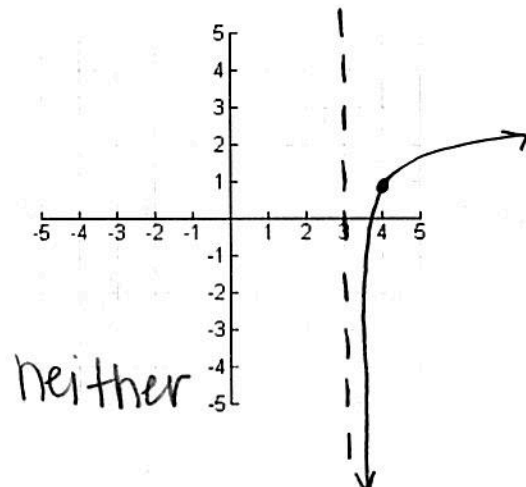
6)  $y = |x-3|$



7)  $y = (x+4)^3$



8)  $y = \log(x-3)+1$



9) Match the function (write the letter of the graph on the blank) with the graph. Write the even, odd, or neither below each picture.

K  $f(x) = x$

J  $f(x) = |x|$

L  $f(x) = x^2$

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

D  $f(x) = x^3$

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

A  $f(x) = 2^x$

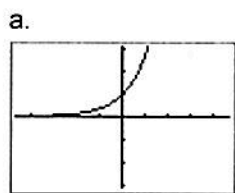
F  $f(x) = \log x$

C  $f(x) = c$  or  $f(x) = 2$

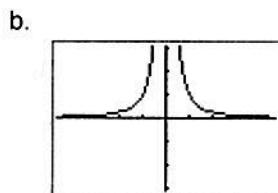
G  $f(x) = \left(\frac{1}{2}\right)^x$

E  $f(x) = \frac{1}{x}$

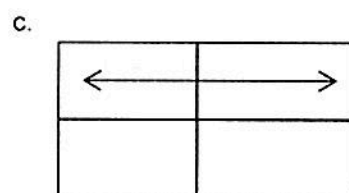
B  $f(x) = \frac{1}{x^2}$



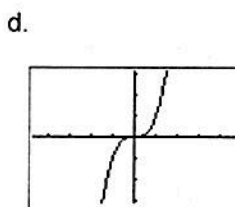
neither



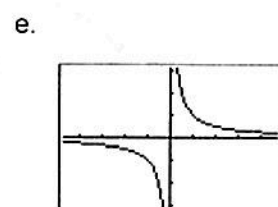
even



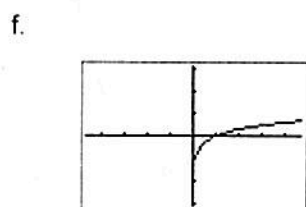
even



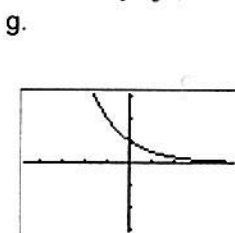
odd



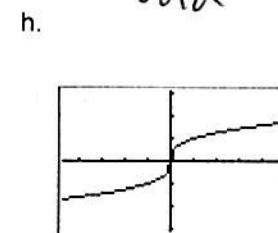
odd



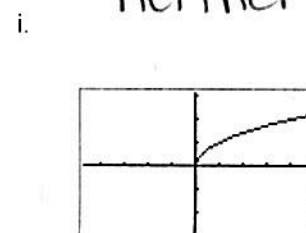
neither



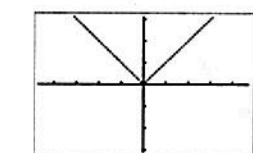
neither



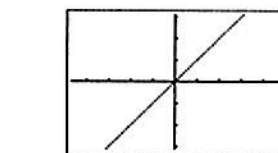
odd



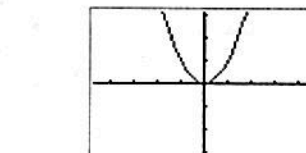
neither



even



odd



even

Are the following functions even, odd, or neither? {Show work to justify your answer.}

10)  $y = x^2 - 4$

$(-x)^2 - 4$

$x^2 - 4$  even

11)  $y = 3x^3$

$3(-x)^3$

$-3x^3$  odd

12)  $y = |x - 2|$

$|-x - 2|$

neither

13)  $y = x^3 - 4$

$(-x)^3 - 4$

$-x^3 - 4$

neither

14)  $y = (x^3 - 1)$

$((-x)^3 - 1)$

$(-x^3 - 1)$

neither

15)  $y = |x| - 1$

$| -x | - 1$

$x - 1$

even