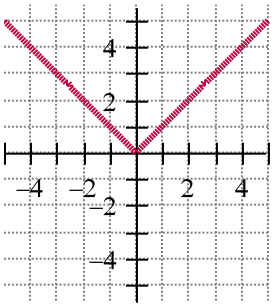
Symmetry

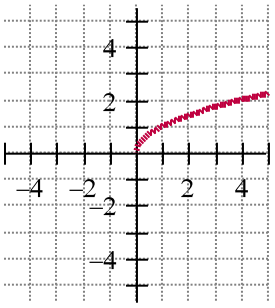
Name:_____

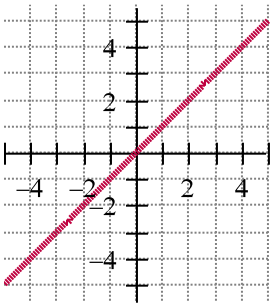
1. If a function is even, its graph is symmetric with respect to the _____.
   This also means that $f(-x) =$ _____

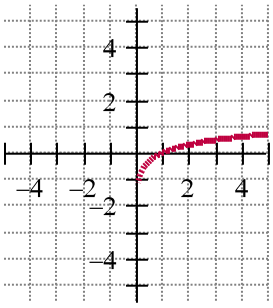
2. If a function is odd, its graph is symmetric with respect to the _____.
   This also means that $f(-x) =$ _____

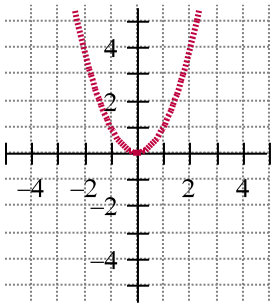
Determine whether each function graphed is even, odd, or neither

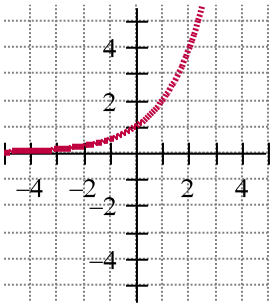
_____3. 

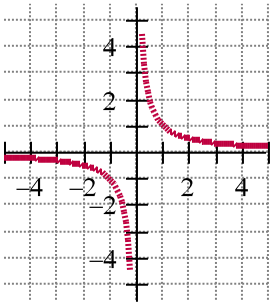
_____4. 

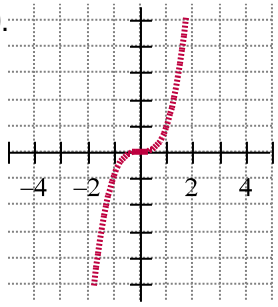
_____5. 

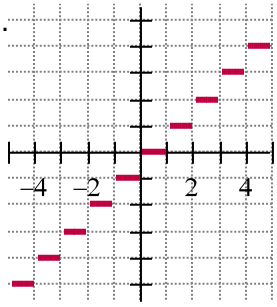
_____6. 

_____7. 

_____8. 

_____9. 

_____10. 

_____11. 

Determine algebraically whether each of the following functions is even, odd or neither.

12. $f(x)=4x+5$

13. $f(x)=x^3-x$

14. $f(x)=x^2-6$

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

16. f(x)=|x|

17. $f(x)=\dfrac{x^3-x}{x^5}$

18. $f(x)=(x-4)^2$

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