

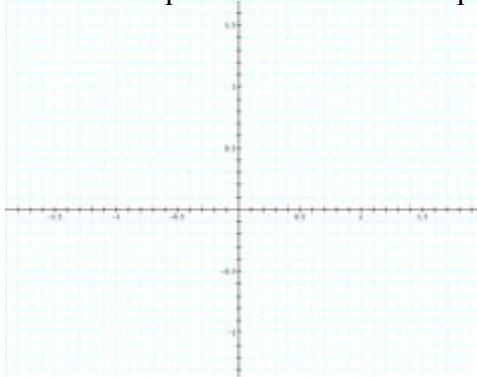
March 19, 2007

Sketch a graph for the following functions. Describe why the graph would behave the way you've drawn it. **Describe** how the first even function's graph would differ from the other and the same for the two odd functions.

1)  $y = x^{21}$

Graph of same coordinate plane as:

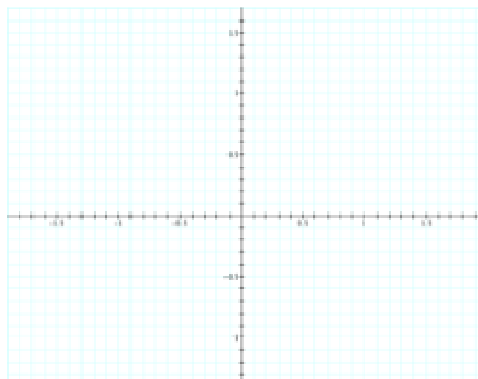
2)  $y = x^9$



3)  $y = x^{18}$

Graph on same coordinate plane as:

4)  $y = x^{14}$



5) For any function of the form  $y = x^n$ , will the graph always pass through the point (1,1)? If so, why?