

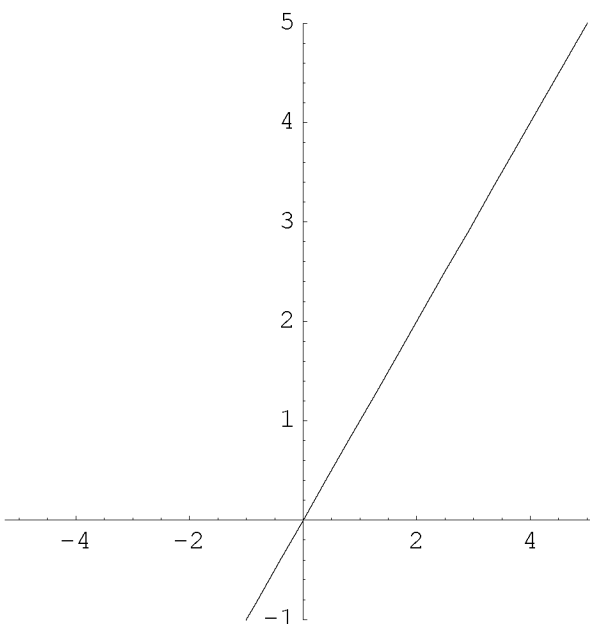
■ A. Give the points which are symmetric to the following points

- (a) with respect to the  $y$ -axis,  
 (b) with respect to the origin,  
 (c) with respect to the  $x$ -axis, and  
 (d) with respect to the line  $y = x$ .

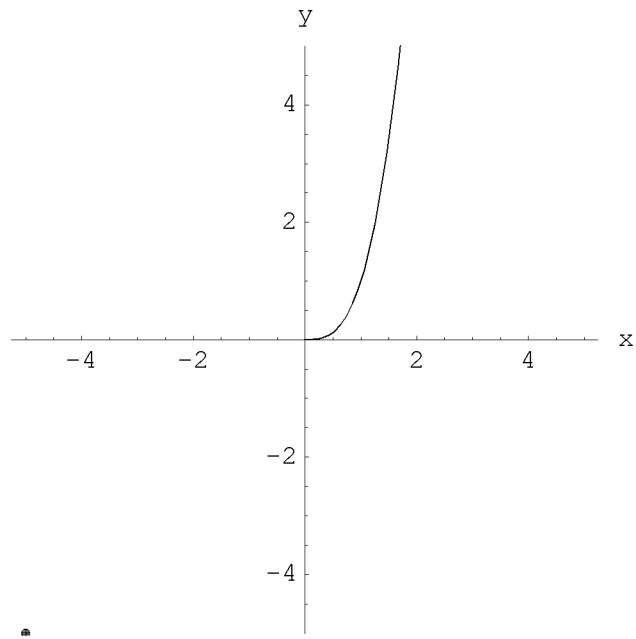
	$y$ - axis	origin	$x$ - axis	$y = x$
$(-5, 17)$				
$(14, 123)$				
$(-9, -8)$				
$(\pi, \sqrt{5})$				

■ B. Sketch the line or curve.

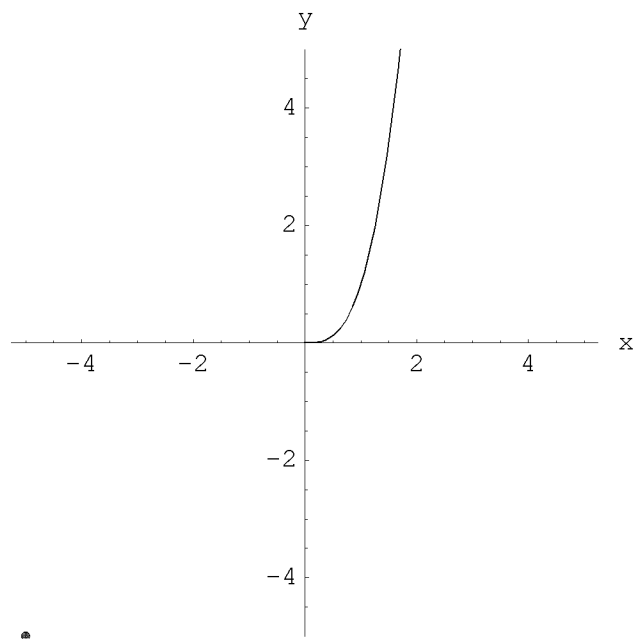
- [1] Sketch the line symmetric to the given line with respect to the  $y$ -axis.



- [2] Sketch the curve symmetric to the given curve with respect to the line  $y = x$ .



[3] Sketch the curve symmetric to the given curve with respect to the origin.



■ C.  $f : f(x) = x^4$  is symmetric with respect to the y-axis. Prove this.