

**Quiz 1**  
Oct. 4, 2006

1. Which of the following pairs of functions are inverse functions of each other on the implied domains?

A)  $f(x) = |x|, g(x) = |x|$   
C)  $f(x) = \frac{1}{x}, g(x) = \frac{1}{x},$

B)  $f(x) = \frac{1}{x}, g(x) = \frac{x}{1},$   
D)  $f(x) = \sqrt{x}, g(x) = x^2.$

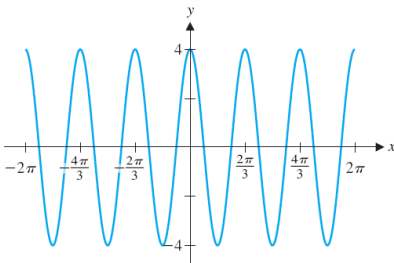
2. Which of the following curves is **NOT** the graph of a function?

(A)

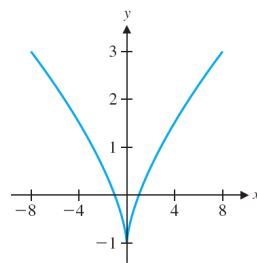
(B)

(C)

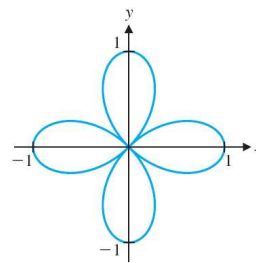
(D)



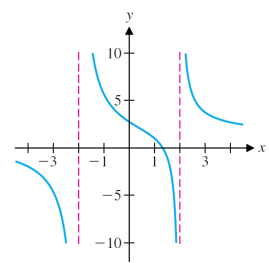
A) graph A,



B) graph B,



C) graph C



D) graph D

3. Which one of the lines below is parallel(平行) to the line  $y - 4 = 2(x - 7)$  ?

A)  $2x + y = -4,$   
C)  $-x - 2y = 1,$

B)  $2x - y = 4$   
D)  $-x + 2y = 2$

4. Determine all intercepts, if any, for the graph of the function  $\frac{x^2-5x-6}{x}.$

A)  $(0, -6); (2, 0), (3, 0)$   
C)  $(6, 0), (-1, 0)$

B)  $(-6, 0)$   
D)  $(0, -6), (-6, 0)$