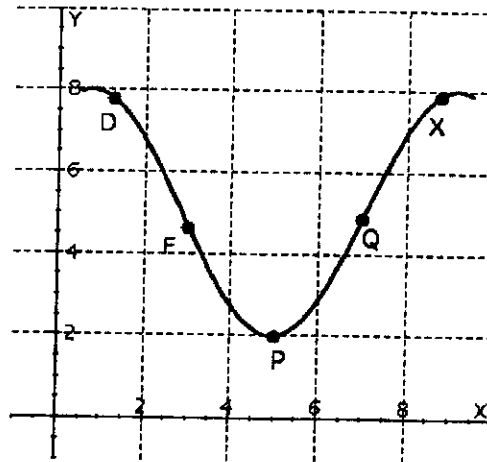


5. Find a function  $g(x)$  that agrees with  $f(x) = \frac{6 - \sqrt{x}}{36 - x}$  for  $x \neq 36$  and is continuous at  $x = 36$ .

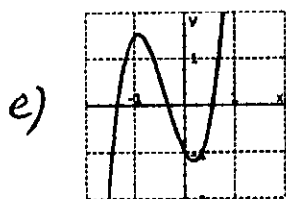
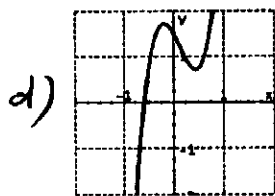
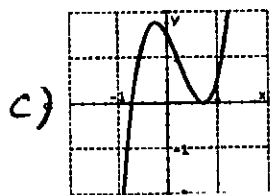
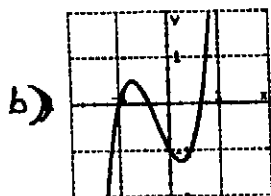
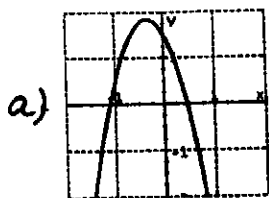
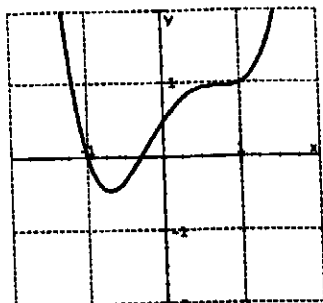
- a)  $g(x) = \frac{1}{6 + x}$   
 b)  $g(x) = \frac{1}{6 + \sqrt{x}}$   
 c)  $g(x) = \frac{1}{36 - x}$   
 d)  $g(x) = \frac{1}{6 - \sqrt{x}}$   
 e)  $g(x) = 6 + x$

6. Consider the slope of the given curve at each of the five points shown. List these five slopes in decreasing order.

- a)  $Q, X, P, D, F$   
 b)  $Q, P, X, F, D$   
 c)  $D, F, P, Q, X$   
 d)  $X, Q, P, F, D$   
 e)  $F, D, P, X, Q$



9. The graph of a function  $f(x)$  is given below. Use the graph to select the correct graph of  $f'(x)$ .



16. (5pts.) Find all the values of  $x$  where the function  $f(x)$  is discontinuous from the left.

