

(#1)  $f(x) = 2x^3$   
 $x = 5$  (5, 250)

(#2)  $f(x) = 4x^3$   
 $x = 3$  (3, 108)

(#3)  $f(x) = 5x^3 + 8x$   
 $x = 2$  (2, 56)

(#4)  $f(x) = 5x^2$   
 $x = 2$  (2, 20)

(#5)  $f(x) = 2x^3 + 4x$   
 $x = 1$  (1, 6)

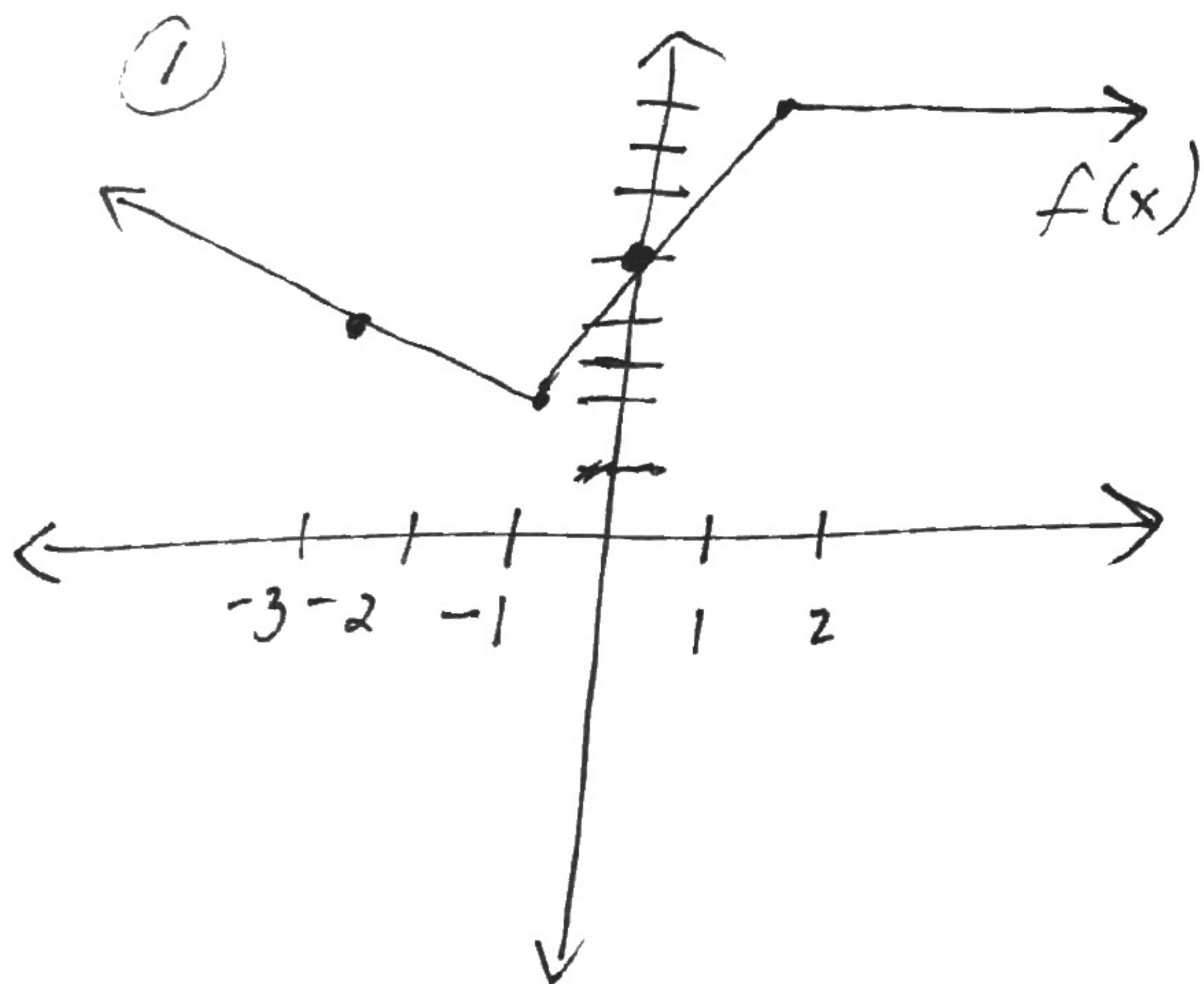
(#6)  $f(x) = x^2$   
 $x = 2$  (2, 4)

(#7)  $f(x) = x^3 + x$   
 $x = 3$  (3, 30)

(#8)  $f(x) = \frac{2}{x}$   
 $x = t$  ( $t, \frac{2}{t}$ )

(#9)  $f(x) = x^3$   
 $x = p$  ( $p, p^3$ )

(#10)  $f(x) = \sin x$   
 $x = \frac{\pi}{2}$  ( $\frac{\pi}{2}, 1$ )



②  $x = -1$   
 $x = 1$  ] both corners /  
one-sided  
derivatives  
are  $\neq$