Quiz 5.5

Name _____

1. Let g be the function given by $g(x) = 3x^4 - 8x^3$. At what value of x on the closed interval $[-2, 2]$ does g have an absolute maximum?

(A) -2

(B) 0

(C) 2

(D) $\frac{8}{3}$

2. Let f be the function defined by $f(x) = 12x - x^3$. What is the absolute minimum value of f on the closed interval $[0, 3]$?

(A) -16

(B) 0

(C) 9

(D) 16

3. Let g be the function defined by $g(x) = |x| + 2|1 - x|$. What is the absolute minimum value of g on the closed interval $[-2, 2]$?

Quiz 5.5

(A) 1

(B) 2

(C) 4

(D) 8