QUIZ 10 - MATH 112	
YOUR NAME:	

Friday, April 10 George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Find the average value of  $f(x) = x^3 - 5x^2 + 10$  in [-1, 3].

2. Find the area of the region bounded by the graphs of the functions  $f(x) = x^2 - 6x + 4$  and  $g(x) = -x^2 + 4$ .