QUIZ 2 - MATH 152 Friday, September 10

YOUR NAME:_____ 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. Evaluate the trigonometric integral $\int \sin^3\theta d\theta$.

2. Use the trigonometric substitution $x = 4\sin\theta$ to evaluate the integral $\int \frac{x^3}{\sqrt{16-x^2}}dx$.