

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. Compute the exact value of the expression $\sin(2 \sin^{-1} \frac{4}{5})$.
2. Solve the equation $6 \cos x \sin x - 3 \cos x - 4 \sin x + 2 = 0$ for $0 \leq x < 2\pi$.