

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 and/or simplify

(a) $64^{-2/3} =$

(b) $2\sqrt{7a} \cdot 3\sqrt{14a} =$

(c) $(3\sqrt{3} - \sqrt{2})(\sqrt{2} + \sqrt{3}) =$

(d) $\sqrt{16b} - \sqrt{9b} =$

(e) $\sqrt[4]{4a^{10}} \div \sqrt[4]{2a^2} =$