

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. Simplify the following expression and write your answer without negative exponents

$$\frac{(-2x^{-5}y)(-3xy^6)}{-6x^{-6}y^2}.$$

2. Simplify the following expression and write your answer without negative exponents

$$(7xz^2)^{-4} \left( \frac{7xy^{-1}}{z} \right)^3.$$