QUIZ 5 - MATH 102 YOUR NAME:

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. Solve the following system using the matrix method:

2. Simplify and write your answer without negative exponents:

(a)
$$\frac{3y^{-4}y^{-6}}{2^{-3}y^2y^{-7}} =$$

(b)
$$\frac{(3x^{-1}y^3)^{-2}}{(2xy^{-1})^3} =$$

3. Sugar went to the convenience store and bought 2 chocolates and 5 ice cream cones. When her cravings reappeared, she went back and bought 7 chocolates and 8 ice cream cones. The total amount she spent on both trips was \$57 and her second trip cost twice as much as her first. How much did each chocolate and each ice cream cone cost at the store?