

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. Use **completing of the square** to solve the quadratic equation  $x^2 + 6x - 8 = 0$ .
2. Use **the quadratic formula** to solve the equation  $2x^2 - 3x - 6 = 0$ .
3. Use **substitution** to solve the equation  $x^{-2} - 2x^{-1} = 8$ . (If you are not sure about substitution, you may use another method for 4 out of 5 points.)