

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. (a) Solve the following equation by completing the square:

$$x^2 + 8x - 4 = 0.$$

-
- (b) Solve the following equation by using the quadratic formula:

$$\frac{3}{4}x^2 - 2x + \frac{1}{2} = 0.$$

2. Solve the following equations:

(a) $(x^2 + x)^2 - 8(x^2 + x) + 12 = 0.$

(b) $2x - 5\sqrt{x} + 2 = 0,$