EXAM 4 - MATH 102	
YOUR NAME:	

Friday, April 18 George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 10 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Solve the equation $\sqrt[3]{x^2 + 3x - 2} = 2$.

2. Solve the equation $(x-1)^{-2/3} = 9$.

3. Use the quadratic formula to solve the equation $2x^2 - 3x - 6 = 0$.
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4. Use substitution to solve the equation $x - 13\sqrt{x} + 36 = 0$.

5. Two positive real numbers x and y differ by 4 and have a product of 4.

(a) Write two equations that reflect the data in the statement.

(b) Solve the system of equations to find the two numbers x and y.