

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) Write in interval notation and graph “the set of real numbers greater than or equal to  $-3$  and less than  $6$ ”;

(b) Write  $(-\infty, 3) \cup [1, 6)$  as a single interval;

2. Evaluate the following expressions:

(a)  $\frac{1}{3} - \left(-\frac{1}{12}\right) =$

(b)  $|12 - 4| - |3 - 4 \cdot 5| =$