

YOUR NAME: \_\_\_\_\_

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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. Consider “the set of all reals greater than or equal to  $-3$ ”.

(a) Write the set in set notation.

(b) Write the set in interval notation.

(c) Graph the set on the real line.

2. Compute the following and leave your answer in interval notation:

(a)  $[0, +\infty) \cap (-\infty, 1) =$

(b)  $(-1, 1) \cup (0, 2] =$