

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. Compute the area of the region bounded by the curves $f(x) = x + 1$ and $g(x) = -x + 3$ over the interval $[0, 2]$.

2. Compute the area of the region bounded by the curves $f(x) = x^3 - 4x$ and $g(x) = -x^2 + 4$, shown in the figure below.

