

YOUR NAME: _____

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Read each problem **very carefully** before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [4 points] Compute the area under $f(x) = 3e^{-\frac{1}{2}x}$ from $x = -2$ to $x = 0$.

2. [6 points] Compute the area that is enclosed by the graphs of $f(x) = -x^2 + 4x$ and $g(x) = x$ from $x = 0$ to $x = 4$. Please, show all details.