

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. [6 points] Compute the integral:

$$\int \frac{1}{\sqrt{x^2 + 16}} dx.$$

2. [6 points] Compute the integral

$$\int \frac{10x^2 + x + 28}{x^3 + 4x} dx.$$