

QUIZ 1 - MATH 152

Friday, August 30

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 area of the region enclosed by the graphs of  $f(x) = -x^2 + 2x + 6$  and  $g(x) = x^2 + 2$ . Please, show all details.

2. [6 points] Compute the shaded area.

