

Quiz #2a: Sections 5.1 & 5.2

Show all work in a neat and logical manner in order to get full credit.

Don't forget to sketch the graph for each problem!!

Simplify **all** answers. Leave answers in fraction or radical form.

6 pts.

1. Find the area of the region bounded by $y = x + 4$ and $y = x^2 - 2x$.

6 pts.

2. Find the area of the region bounded by $x = \sqrt{4 - y^2}$ and $x = 0$.

- 6 pts. 3. Find the volume of the solid generated by revolving the region R bounded by $y = \sqrt{2x+3}$, and $y = 0$ between $x = 0, x = 1$ about the x-axis.

- 6 pts. 4. Find the volume of the solid generated by revolving the region R bounded by the circle $x^2 + y^2 = 16$, $x = 4$, and $y = 4$ about the y-axis.

6 pts.

5. Find the volume of the solid generated by revolving the region R in the first quadrant bounded by $y = \sqrt{6x}$, $y = 6$, and the y-axis about the line $y = -2$.

Grade Posting Option

Would like to me to post your grades on the course website?

Yes

No

If yes, please write a 4-digit number you can remember that I will use to identify your grades.

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If no, please remember that you can see me during office hours anytime to see your grade. Your grades will NOT appear on the course website.

Points earned: _____ out of a possible 30 points