Math 2414: **Calculus II** ***Homework***

*Professor*: Fred Khoury

1. Find the volume of the solid obtained by rotating the region bounded by  about the .
2. Find the volume of the solid obtained by rotating the region bounded by  about the .
3. Find the volume of the solid obtained by rotating the region bounded by  about the line.
4. Use Shell-method to find the volume of the solid obtained by rotating about the  the region under the curve  from 0 to 1.
5. Find the volume of the solid obtained by rotating the region bounded by  and  about the line .
6. Find the volume of the resulting solid by ***any method*** for the region bounded by , , and rotate about the .
7. Find the volume of the resulting solid by ***any method*** for the region bounded by , , and rotate about the .
8. Find the volume of the resulting solid by ***any method*** for the region bounded by , , and rotate about .

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