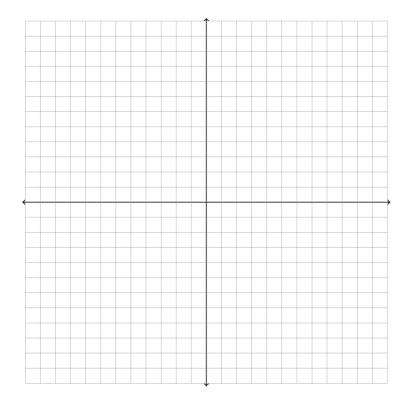
Quiz 7

Honor Code: On my honor, I have neither given nor received any aid during this examination.

Instruction: You are not allowed to use a calculator during this examination. You need to show all necessary steps to get credit. This document is **double-sided**.

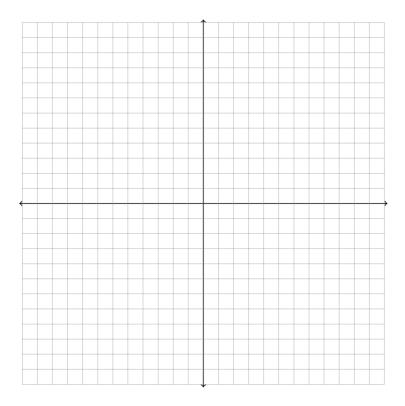
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Problem 1



- (a) Sketch the region enclosed by the curves y = x 2 and $y^2 = 3x + 4$.
- (b) Write an integral that represents the **area** of the region in part (a). **Do** not evaluate the integral.

Problem 2



- (a) Sketch the region enclosed by the curves $y = \sqrt{x}$ and $y = \frac{1}{3}x$.
- (b) Write an integral that represents the **volume** of the solid of revolution obtained by rotating the region in part (a) about the xaxis. **Do not evaluate** the integral.