

Name: _____

MATH 2300 - Quiz 6

Instructions: You may not use your calculator, book, or notes. You may not work with anyone else on the quiz. You are encouraged to ask me a question if you are confused about something.

1. Write a Riemann sum and then a definite integral representing the volume of the region, using the slice shown.

2. Say which geometric object is represented by the following integral. Please support your answer with a thorough justification.

$$\int_0^{12} \pi(144 - h^2)dx$$