Name: $\qquad$
Math 123
Spring 2023
Dr. Lily Yen
Quiz 3
Show all your work
$\qquad$
Signature:
Score: $\qquad$ /11
Problem 1: Find the combined area of a right triangle with a semicircle drawn on its hypotenuse. If necessary, round to nearest thousandths.


Score: /3
Problem 2: Below is a $5 \times 15$ grid containing a big triangle. Find the perimeter of the big triangle. Show your work for each side length.


Problem 3: In the three dimensional guide below, draw a tall rectangular prism (a box) with base area 12 square units.
a. Indicate the height of the rectangular prism on the 3-D grid.
b. Drill a cylindrical hole of diameter 1 from the top to the bottom of the tall rectangular prism. Find the volume of the resulting solid.


Problem 4: Reflect the given figure along the dashed line.


