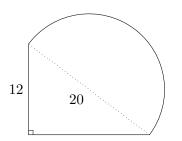
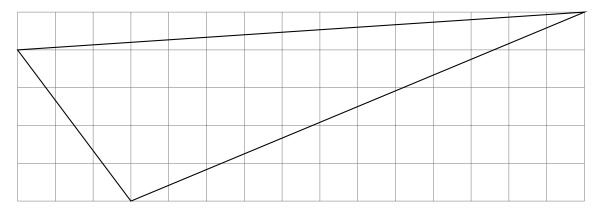
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Math 123	Quiz 3	Number:		
Spring 2023 Dr. Lily Yen	Show all your work	Signature:		
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**Problem 1**: Find the combined area of a right triangle with a semicircle drawn on its hypotenuse. If necessary, 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.

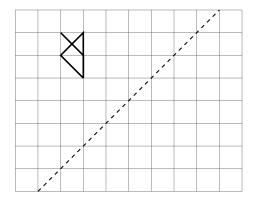


**Problem 3**: In the three dimensional guide below, draw a tall rectangular prism (a box) with base area 12 square units.

- 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.

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



Score: /4