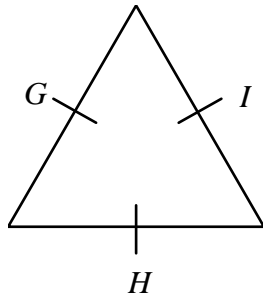


NAME: \_\_\_\_\_

1. In the figure below,  $I =$  \_\_\_\_\_.



- [A]  $\sqrt{H^2 + G^2}$       [B]  $H^2 + G^2$   
[C] none of these answers  
[D]  $\sqrt{G^2} - \sqrt{H^2}$

2. Find the area of an equilateral triangle with side 4.

3. An equilateral triangle has a perimeter of 78 km and an area of  $169\sqrt{3}$  km<sup>2</sup>. Find the altitude of the triangle.

- [A] 26 km      [B] 52 km  
[C]  $13\sqrt{3}$  km      [D]  $26\sqrt{3}$  km

4. An equilateral triangle has a perimeter of 24 m and an area of  $16\sqrt{3}$  m<sup>2</sup>. Find the altitude of the triangle.

5. Find the area of an equilateral triangle with an apothem 4.3 meters long and a side 15 meters long.

[1] C

[2]  $4\sqrt{3}$

[3] C

[4]  $4\sqrt{3}$  m

[5]  $96.75 \text{ m}^2$