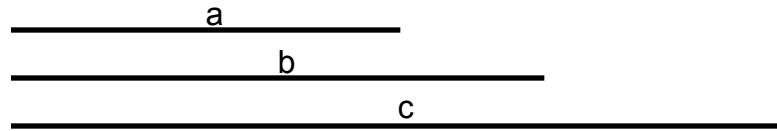


H. Geom.**Mean Constructions**

Name _____

Use the segments below to complete the following constructions.



1. Construct the geometric mean of **a** and **c**.
2. Construct the arithmetic mean of **a** and **c**.
3. Construct a square with the same area as a rectangle with length **b** and width **c**.
4. Construct a square with the same perimeter as a rectangle with length **b** and width **c**.
5. Construct a segment with length $a\sqrt{2}$. (*Think of 45°-45°-90°*)
6. Construct a right triangle with hypotenuse **c** and leg **b**, using a semi-circle.
7. Construct an isosceles right triangle with the same area as a right triangle with legs **a** and **c**.