

# 8 - 1

## GEOMETRIC MEAN

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*Comparison of any two real numbers  
(a & b) using a proportion.*

$$\frac{a}{x} = \frac{x}{b}$$

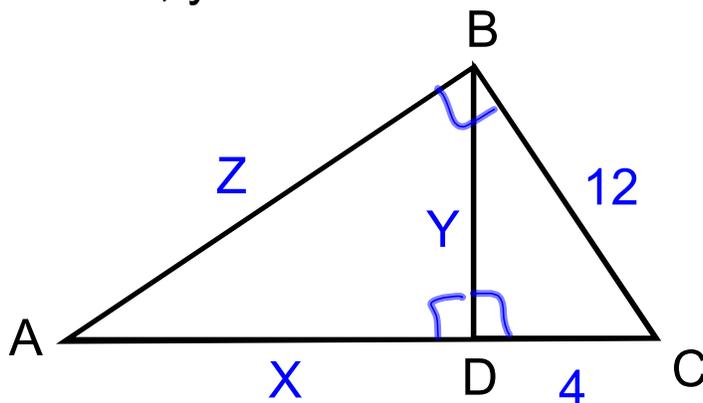
**EXAMPLE**

Calculate the Geometric Mean

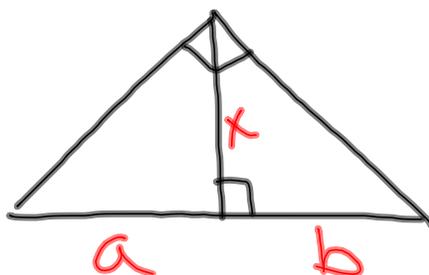
1) 6 & 8

2)  $(3\sqrt{3})(4\sqrt{3})$

Solve for x, y and z

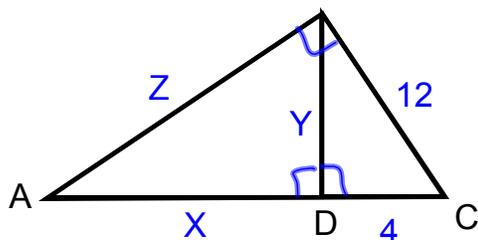


# ALTITUDE SHORTCUT

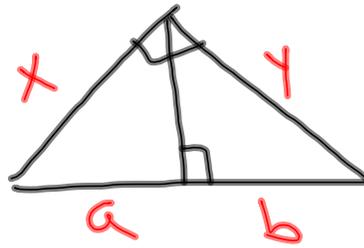


$$\frac{\text{part of hypotenuse}}{\text{altitude}} = \frac{\text{altitude}}{\text{other part of hypot.}}$$

## EXAMPLE



# LEG SHORTCUT



$$\frac{\text{leg}}{\text{adjacent part of hyp.}} = \frac{\text{total hypotenuse}}{\text{leg}}$$

Solve for x, y and z

