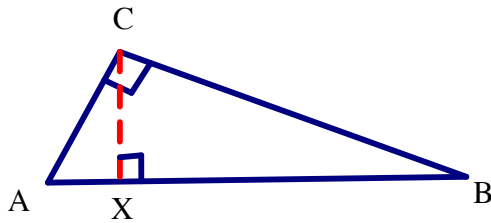# Geometric Mean Theorems – Right Triangles – Altitude

Altitude is Geometric Mean between Segments of Hypotenuse

C

A   X   B

$$\frac{AX}{CX} = \frac{CX}{XB}$$

Use the above diagram to do the following problems.

1.   Find CX if AX = 2 and XB = 8

2.   Find AX if CX = 6 and XB = 9

3.   Find XB if AX = 4 and CX = 8

4.   Find CX if AX = 5 and XB = 20

5.   Find XB if CX = 12 and AX = 6

6.   Find CX if AX = 7 and XB = 28

7.   Find CX if AX = 3 and XB = 4

8.   Find AX if CX = 8 and XB = 12