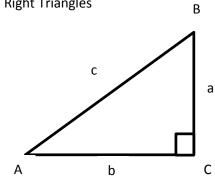
## **Example Applications**

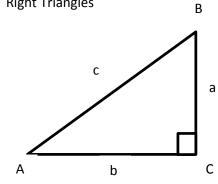
**Right Triangles** 



SOH CAH TOA

$$A = 23.5^{\circ}$$
$$b = 10$$

## **Right Triangles**



SOH CAH TOA

$$a = 14.5$$
  
 $b = 24.1$ 

## **Right Triangles**

A hotair balloon rises vertically and the angle of elevation changes from 19.2° to 31.7°. The point on level ground is 125 ft from the point directly under the passenger compartment. How far, to the nearest tenth of a foot does the balloon rise?

