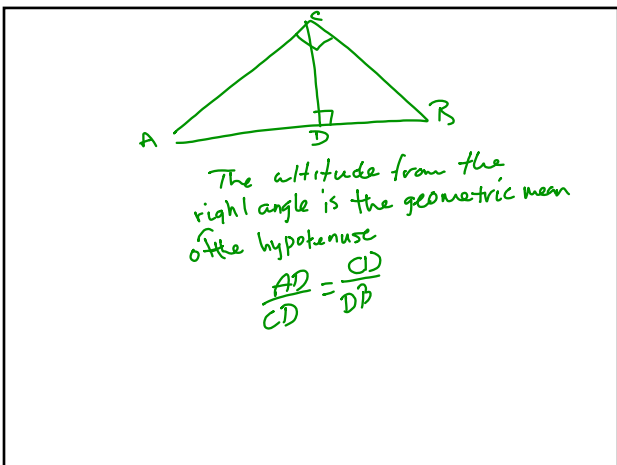


Geometric Mean  
 $\frac{a}{x} = \frac{x}{b}$  we say  $x$  is the geometric mean of  $a/b$



hypotenuse and short leg  $\frac{AB}{CB} = \frac{CB}{BD}$   
 hypotenuse and long leg  $\frac{AB}{AC} = \frac{AC}{AD}$



$$\frac{6}{x} = \frac{x}{12}$$
$$x^2 = 72$$
$$x = \sqrt{72} = 8.5 \text{ ft}$$

$$\frac{18}{h} = \frac{h}{12}$$
$$\sqrt{h^2} = \sqrt{216}$$
$$h \approx 14.7 \text{ ft}$$

P531-532  
2-32 even