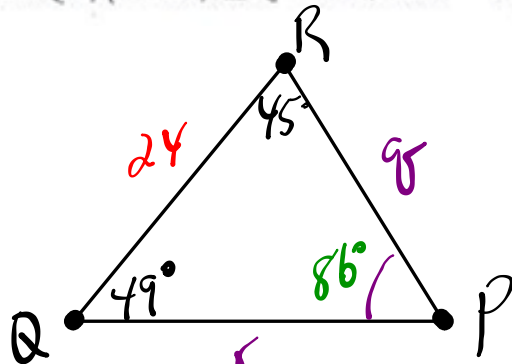


HOMEWORK QUESTIONS...

6 In $\triangle PQR$, $p = 24$, $\angle Q = 49^\circ$, $\angle R = 45^\circ$. Find q , r , and $\angle P$.



unknown side

$$\frac{a}{\sin A} = \frac{b}{\sin B}$$

$$\frac{r \sin 45^\circ}{\sin 45^\circ} = \frac{24 \sin 45^\circ}{\sin 86^\circ}$$

$$r = 17.0$$

$$\begin{aligned} \angle P &= 180 \\ &- 49 \\ &- 45 \end{aligned}$$

$$\angle P = 86^\circ$$

$$\frac{q \sin 49^\circ}{\sin 49^\circ} = \frac{24 \sin 49^\circ}{\sin 86^\circ}$$

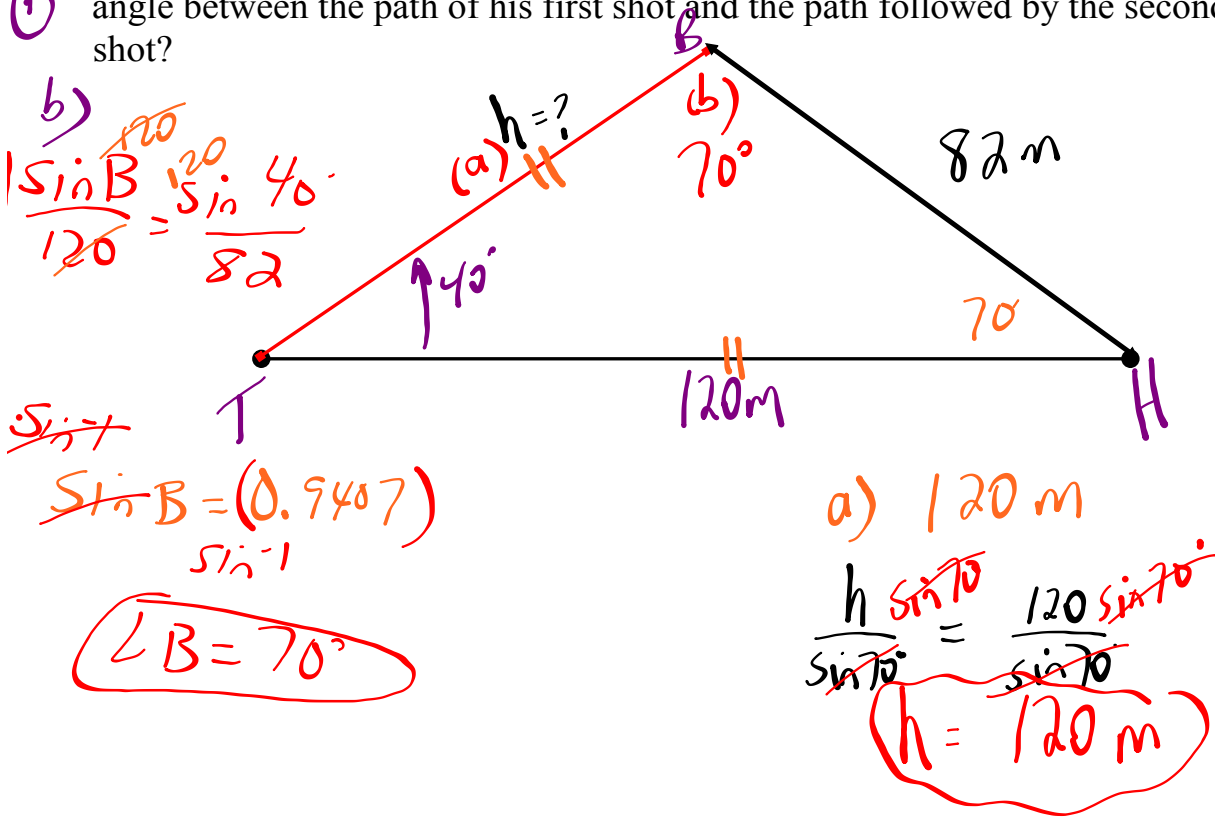
$$q = 18.2$$

EXAMPLE #4 - Application

unknown $\left\{ \frac{\sin(A)}{a} = \frac{\sin(B)}{b} \right\}$

Suppose that Mr. Watters was playing a straight par-3 golf hole that was 120 m long. He hits one of his regular old slices that ends up 40° off line and is still 82 m from the hole.

- (a) How far did his tee shot travel?
- (b) If he somehow miraculously hits his next shot onto the green, what was the angle between the path of his first shot and the path followed by the second shot?



Homework...

Worksheet - Law of Sines.doc

Left Side...

#1 - 6

10.10
Right Side...

#1 - 4

Total law