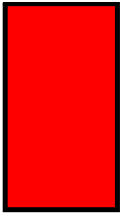
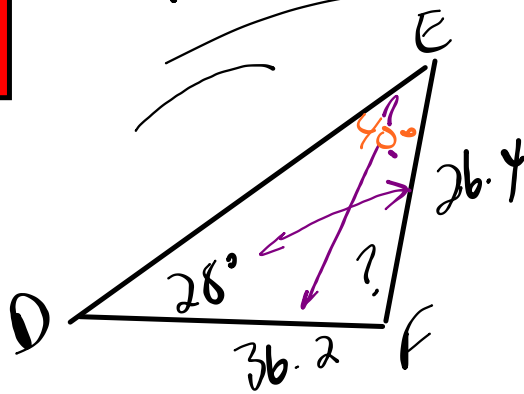


2b)



HW Questions?



find a side

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

find an angle

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

$$\frac{36.2 \sin E}{36.2} = \frac{36.2 \sin 28^\circ}{26.4}$$

$$\sin^{-1} \sin E = \sin^{-1}(0.6437)$$

$$\angle E = 40^\circ$$

$$\begin{aligned} \angle F &= 180 \\ &- 28 \\ &- 40 \end{aligned}$$

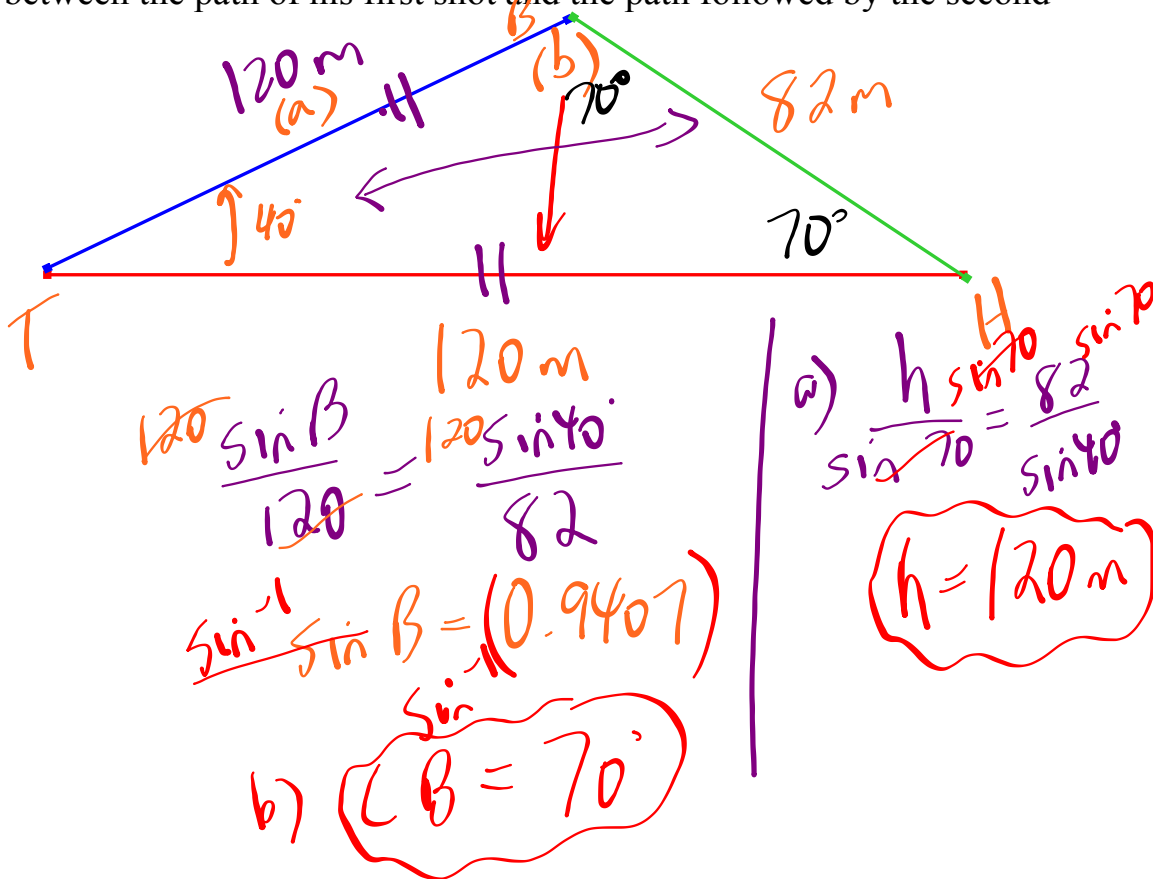
$$\angle F = 112^\circ$$

EXAMPLE #4 - Application

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

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?



HW: 10.10 \Rightarrow # 1-4
[Applications]

* 10.9 \Rightarrow # 1-6
[Revisit!]