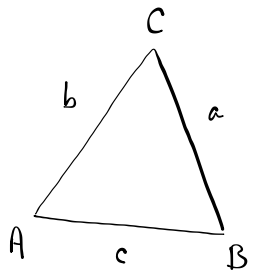
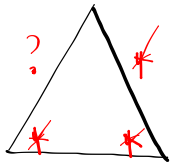
Law of Sines



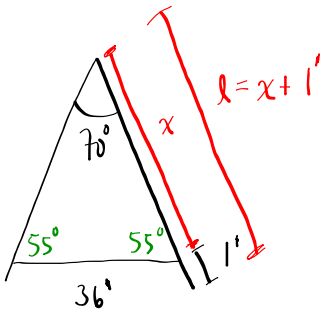
$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$ (finding a side)

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$ (finding an angle)



P125

5.



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

$$\frac{36}{\sin 70^\circ} \leftarrow \frac{x}{\sin 55^\circ}$$

$$x = \frac{36(\sin 55^\circ)}{\sin 70^\circ}$$

$x = 31.3820\ldots$ ft

$l = x + 1$ ft

$l = 32.3820\ldots$ ft

$12(0.3820\ldots) = 4.5845\ldots$ inch

$\doteq 5$ inch

The length should be: 32' 5"

To Do

① P125 / 3-15 (17)

② p128 (Read over)

③ p129 / all.