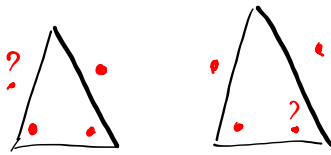


Non-Right Angle Trigonometry

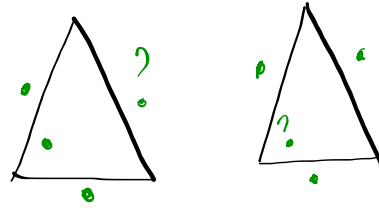
Law of Sines

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



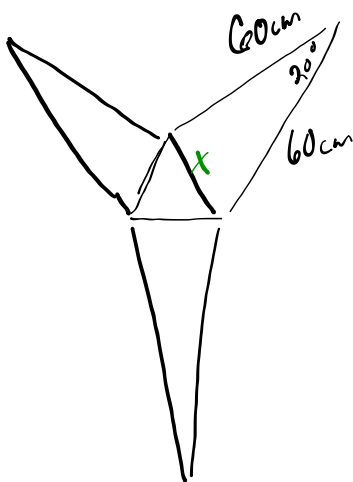
Law of Cosines

$$c^2 = a^2 + b^2 - 2ab \cos C$$



$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$

Example 3 (p135)



Law of Cosines:

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$x^2 = 60^2 + 60^2 - (2(60)(60)\cos 20^\circ)$$

$$x^2 = 434.2131 \dots$$

$$x \doteq 21 \text{ cm}$$

TO DO

① Finish GW (Law of Sines)

② p137 | 4, 5, 8, 9, 13, 15 + 16