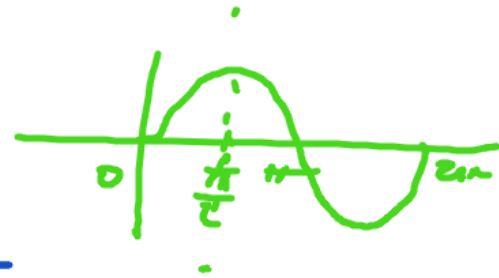
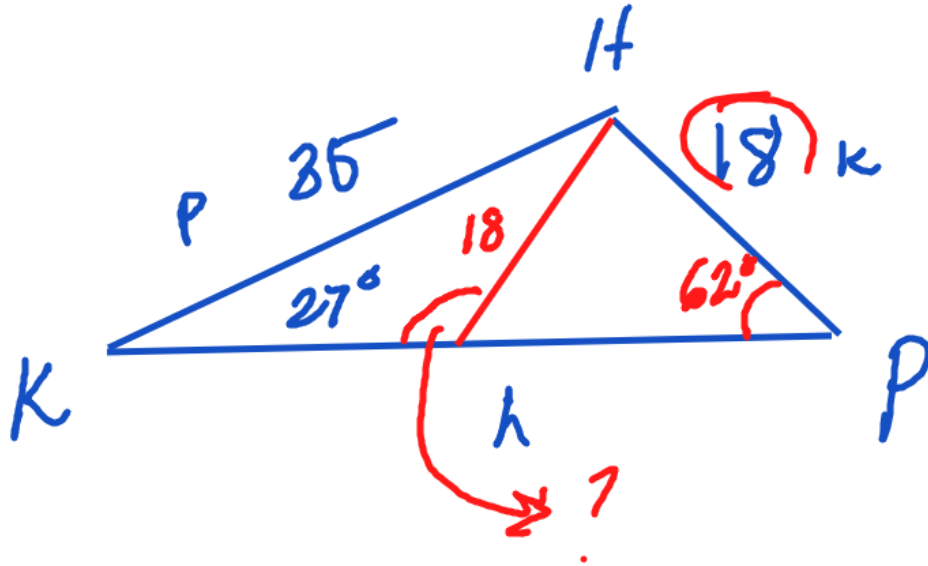


# Law of Sines - Applications



$$35 \sin 27^\circ = 15.89$$



$$20 + 28 = 118^\circ$$

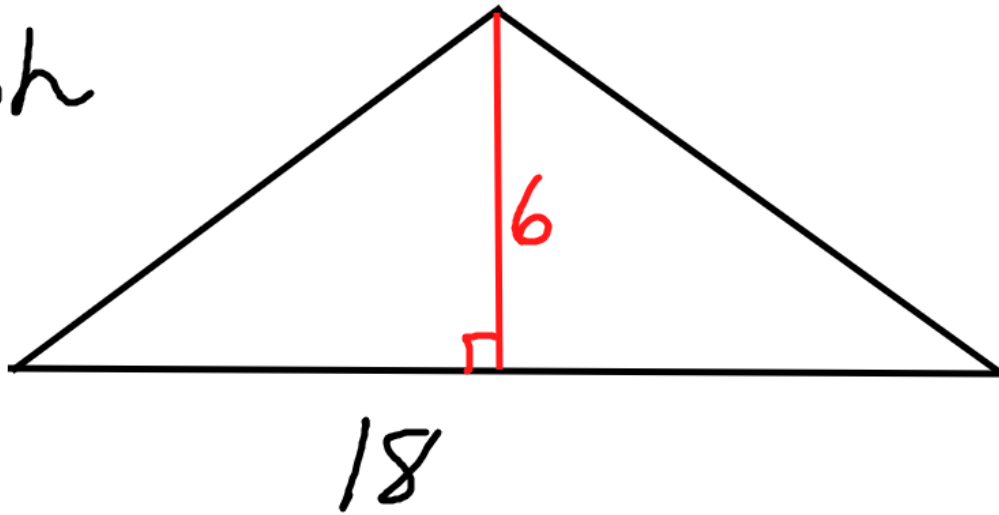


$$5^{\circ}45' = 5 + \frac{40}{60} = 5 + \frac{2}{3} \approx 5.67^{\circ}$$

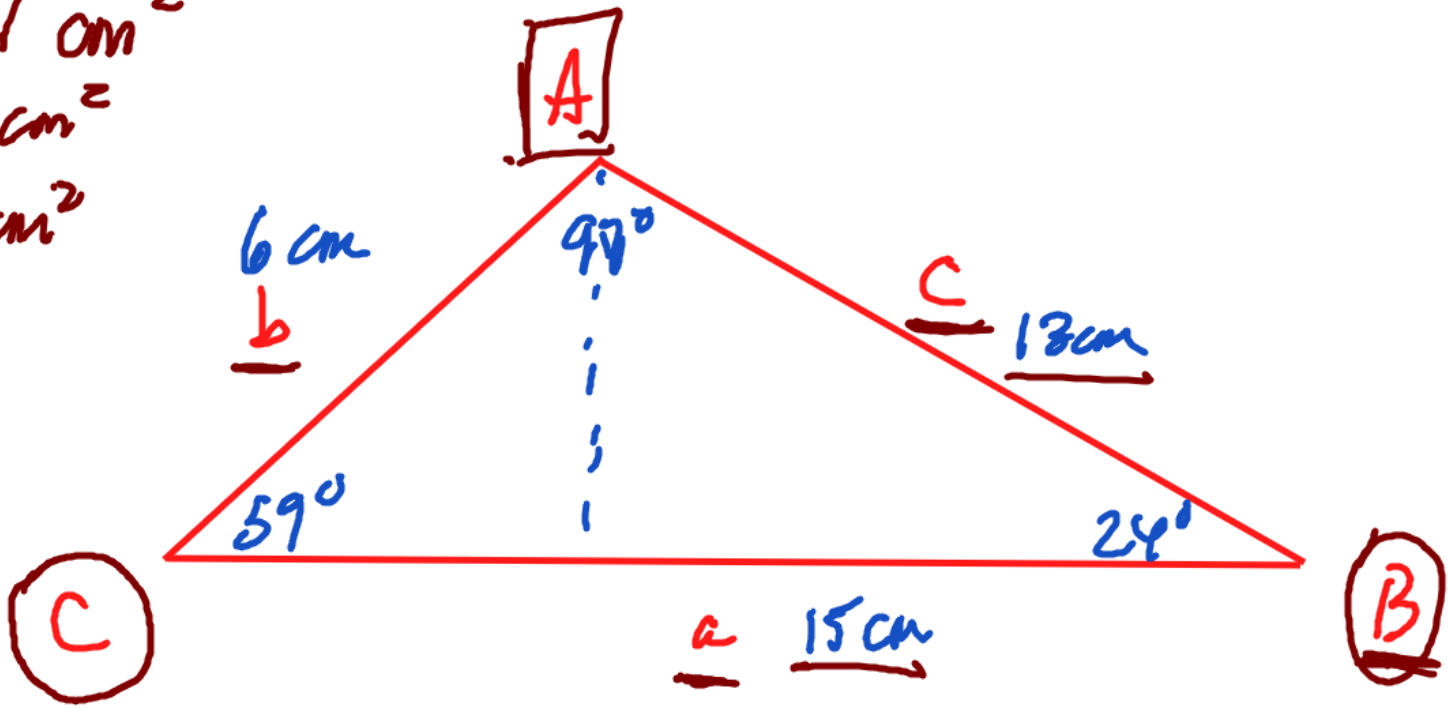
$$25 + \frac{4}{60} = 25 + \frac{1}{15} \approx 25.063\dots$$

# AREA OF A TRIANGLE

$$A = \frac{1}{2}bh$$



38.57 cm<sup>2</sup>  
38.57 cm<sup>2</sup>  
38.7 cm<sup>2</sup>



$$A = \frac{1}{2}(a)(?)$$

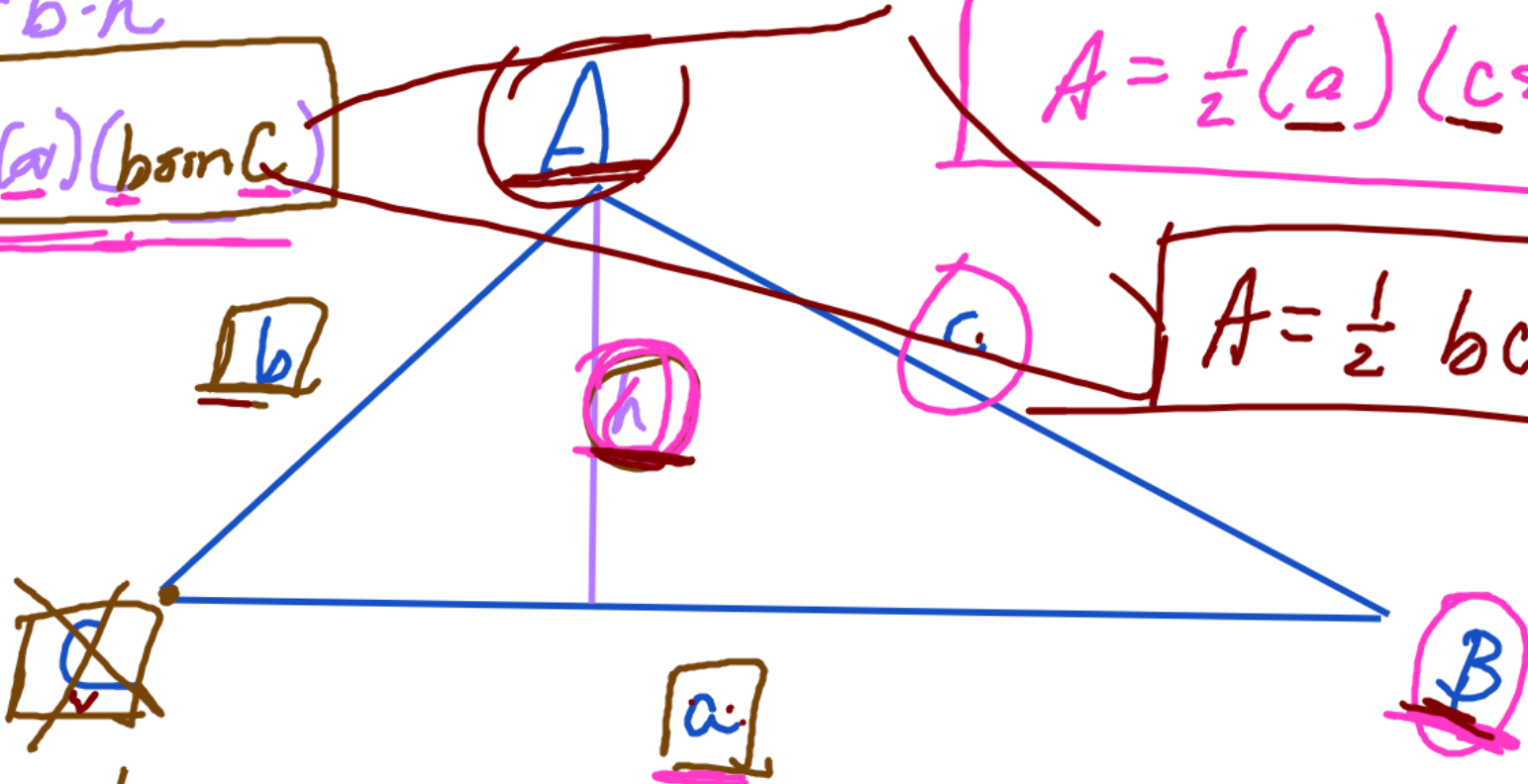
$$\frac{1}{2}(15)(13)\sin 24^\circ$$

$$A = \frac{1}{2} b \cdot h$$

$$= \frac{1}{2} (a) (b \sin C)$$

$$A = \frac{1}{2} (a) (c \sin B)$$

$$A = \frac{1}{2} bc \sin A$$

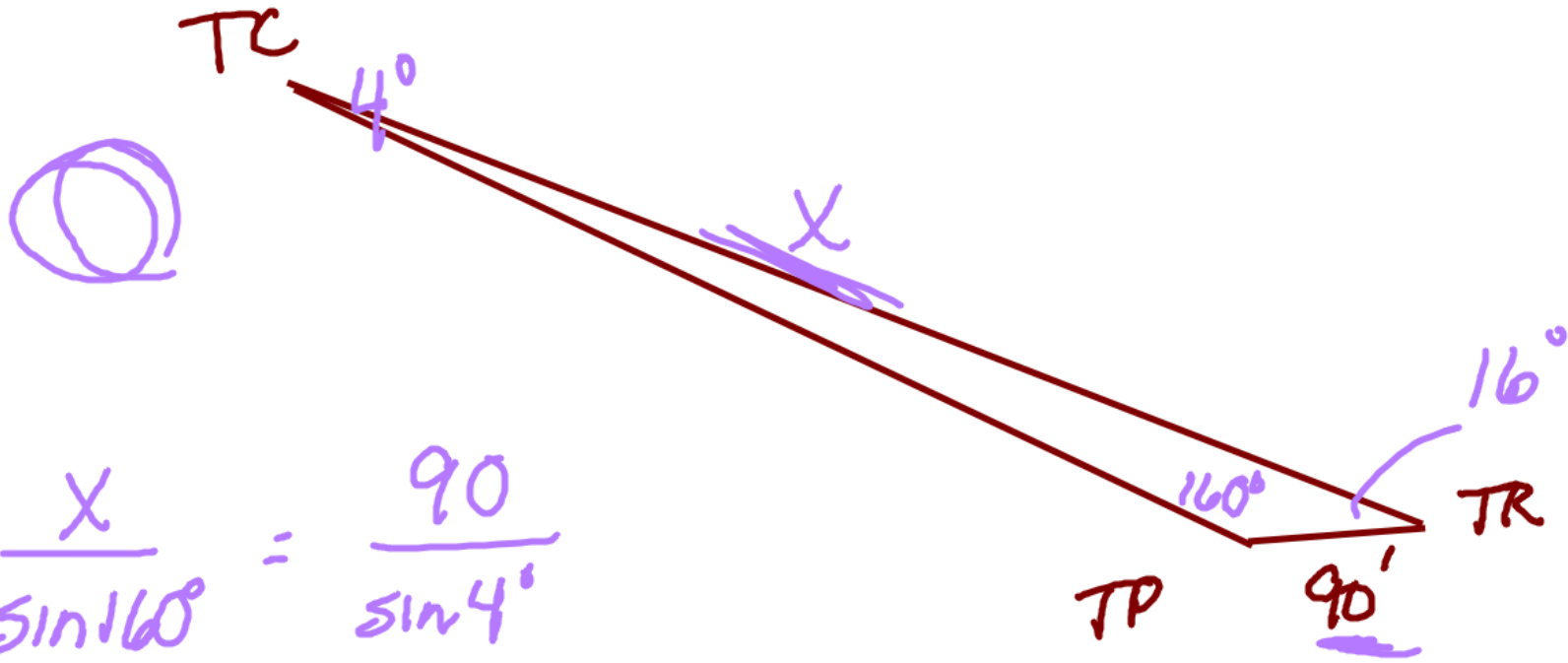


$$\sin C = \frac{h}{b}$$

$$h = b \sin C$$

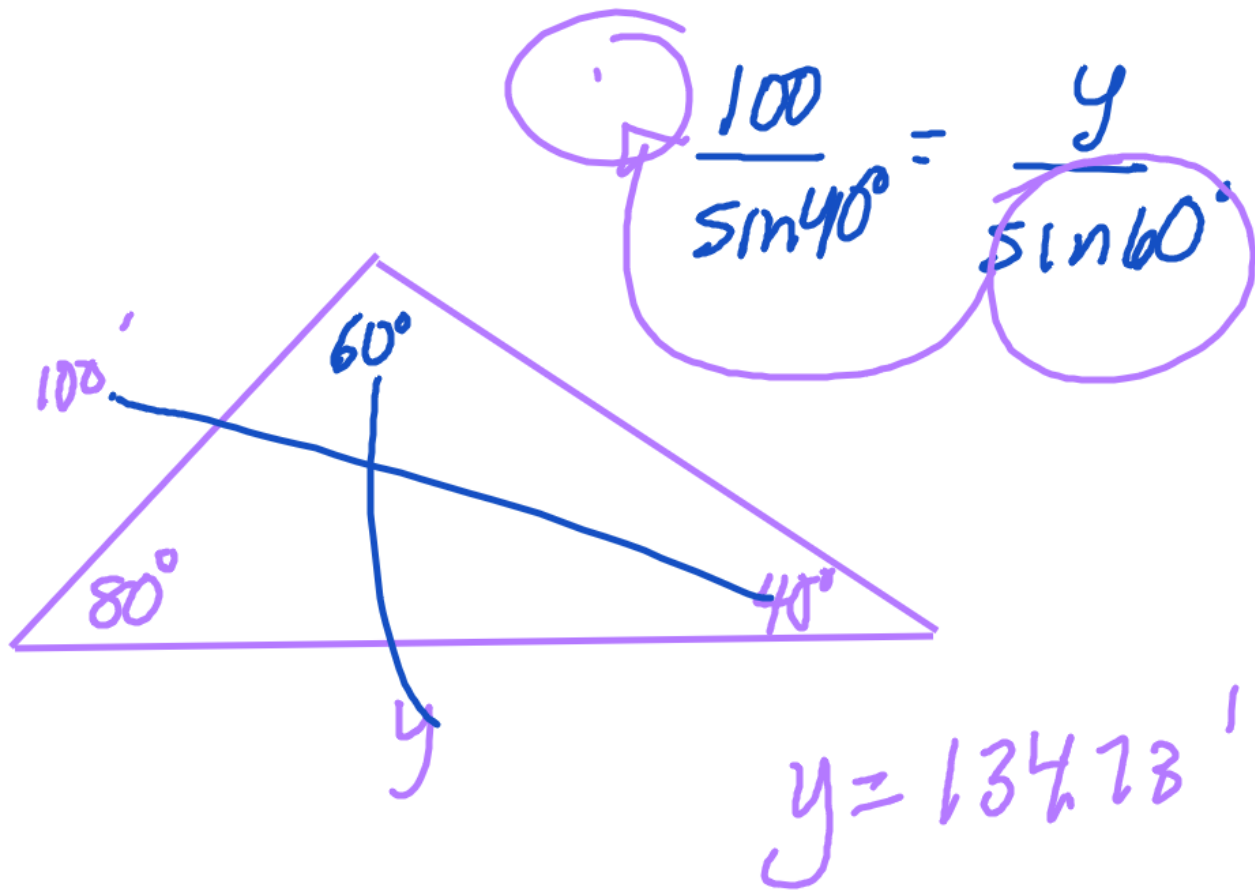
$$\sin B = \frac{h}{c}$$

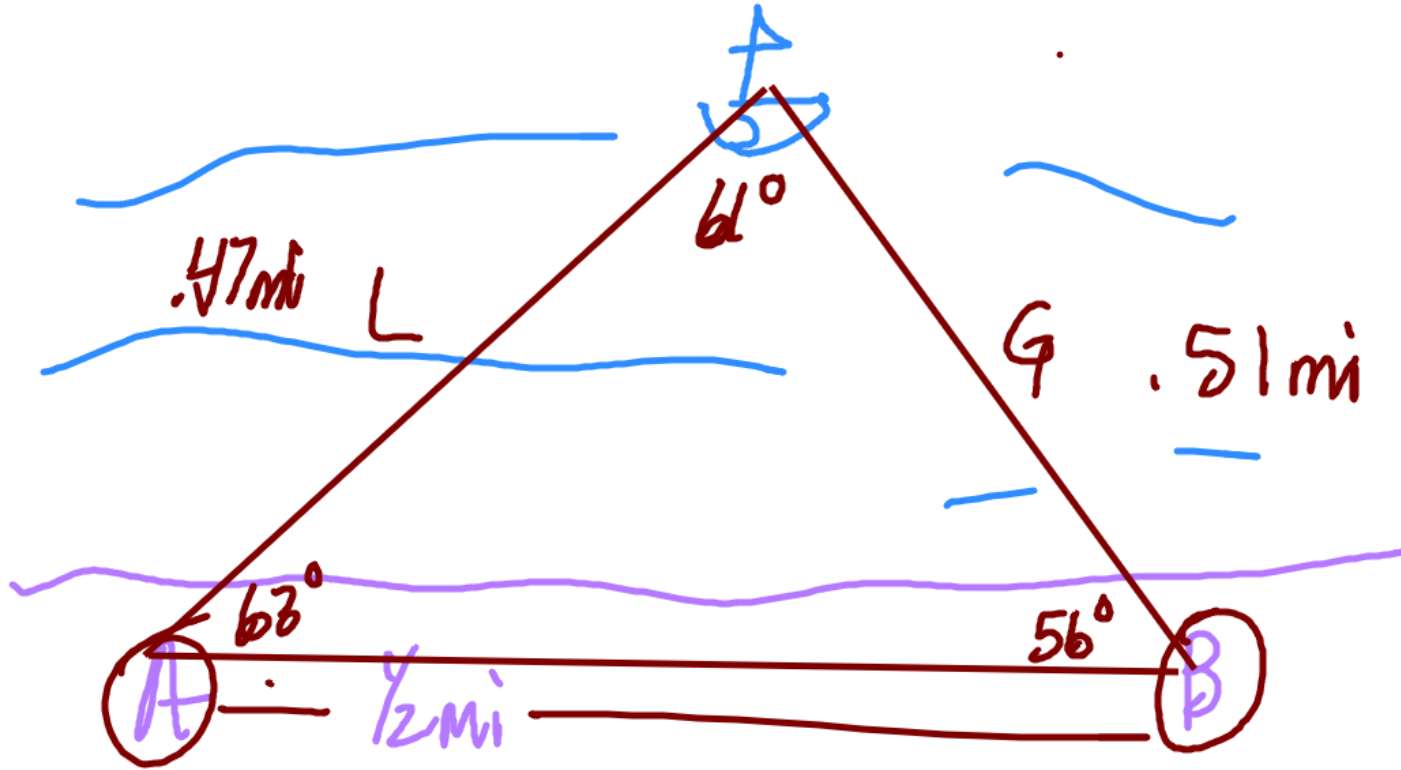
$$h = c \sin B$$



$$\frac{X}{\sin 16^\circ} = \frac{90}{\sin 4^\circ}$$

$$X = 441 \text{ ft} \approx 147 \text{ yards}$$





$61^\circ$



p407

40,44, 45-53, 55-58  
App T/E