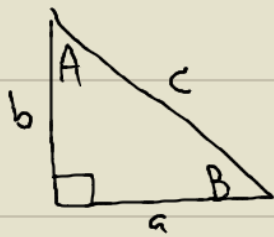


7.



$$a=3$$

$$C=90^\circ$$

$$b=7$$

$$\frac{c}{a^2 + b^2 = c^2}$$

$$3^2 + 7^2 = c^2$$

$$9 + 49 = c^2$$

$$58 = c^2$$

$$c = \sqrt{58}$$

$$c = 7.62$$

A

$$\tan A = \frac{\text{opp}}{\text{adj}}$$

$$\tan A = \frac{a}{b}$$

$$\tan A = \frac{3}{7}$$

$$\tan^{-1}(\tan A) = \tan^{-1}\left(\frac{3}{7}\right)$$

$$A = \tan^{-1}\left(\frac{3}{7}\right)$$

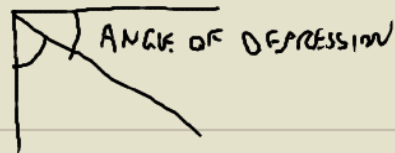
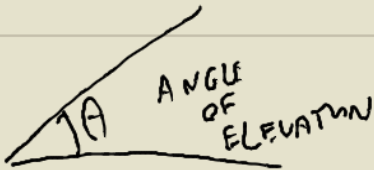
$$A = 23.20^\circ$$

B

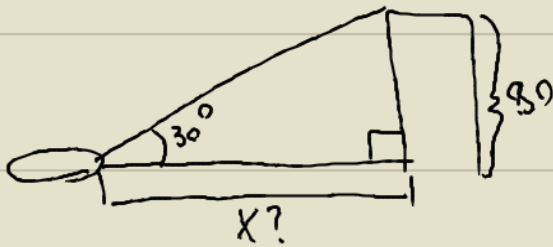
$$B = 180^\circ - A - C$$

$$B = 180^\circ - 23.2^\circ - 90^\circ$$

$$B = 66.8^\circ$$



8.



$$\tan 30^\circ = \frac{\text{opp}}{\text{adj}}$$

$$\tan 30^\circ = \frac{80}{X}$$

$$X \tan 30^\circ = 80$$

$$X = \frac{80}{\tan 30^\circ}$$

$$X = 138.56$$