

Exercise 16k.

$$4. \quad \tan \hat{A} = \frac{\text{opp}}{\text{adj}} = \frac{9}{10}$$

$$\begin{aligned}\hat{A} &= \tan^{-1}\left(\frac{9}{10}\right) \\ &= 41.9872125 \\ &= \underline{\underline{42.0^\circ}}\end{aligned}$$

$$\textcircled{3} \quad \tan \hat{A} = \frac{\text{opp}}{\text{adj}} = \frac{10}{7}$$

$$\begin{aligned}\hat{A} &= \tan^{-1}\left(\frac{10}{7}\right) \\ &= 55.0079 \\ &= \underline{\underline{55.0^\circ}}\end{aligned}$$

$$\textcircled{10} \quad \tan \hat{A} = \frac{\text{opp}}{\text{adj}} = \frac{4.2}{27}$$

$$\begin{aligned}\hat{A} &= \tan^{-1}\left(\frac{4.2}{27}\right) \\ &= 8.84181456 \\ &= \underline{\underline{8.8^\circ}}\end{aligned}$$

$$\textcircled{14} \quad \tan \hat{N} = \frac{\text{opp}}{\text{adj}} = \frac{5.4}{7.2}$$

$$\begin{aligned}\hat{N} &= \tan^{-1}\left(\frac{5.4}{7.2}\right) \\ &= 36.86989 \\ &= \underline{\underline{36.9^\circ}}\end{aligned}$$

$$\textcircled{18} \quad \tan \hat{A} = \frac{\text{opp}}{\text{adj}} = \frac{6.1}{10}$$

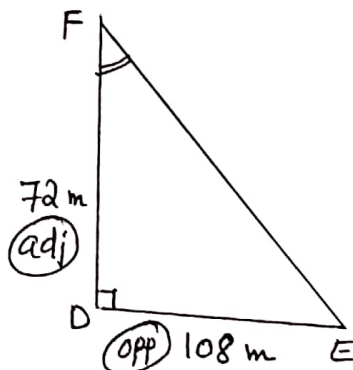
$$\begin{aligned}\hat{A} &= \tan^{-1}\left(\frac{6.1}{10}\right) \\ &= 31.798912 \\ &= \underline{\underline{31.8^\circ}}\end{aligned}$$

$$\textcircled{21} \quad \tan \hat{A} = \frac{\text{opp}}{\text{adj}} = \frac{16}{24}$$

$$\begin{aligned}\hat{A} &= \tan^{-1}\left(\frac{16}{24}\right) \\ &= 33.69006 \\ &= \underline{\underline{33.7^\circ}}\end{aligned}$$

$$\textcircled{23} \quad \tan \hat{A} = \frac{\text{opp}}{\text{adj}} = \frac{12}{15}$$

$$\begin{aligned}\hat{A} &= \tan^{-1}\left(\frac{12}{15}\right) \\ &= 38.65980 \\ &= \underline{\underline{38.7^\circ}}\end{aligned}$$



$$\tan \hat{F} = \frac{\text{opp}}{\text{adj}} = \frac{108}{72}$$

$$\begin{aligned}\hat{F} &= \tan^{-1}\left(\frac{108}{72}\right) \\ &= 56.309932 \\ &= \underline{\underline{56.3^\circ}}\end{aligned}$$