

Exercise 16j

$$1. \quad \tan \hat{A} = \frac{3}{5}$$

$$\hat{A} = \tan^{-1}\left(\frac{3}{5}\right)$$

$$= 30.96375653$$

$$= \underline{\underline{31.0^\circ}}$$

$$6) \quad \tan \hat{A} = \frac{3}{20}$$

$$\hat{A} = \tan^{-1}\left(\frac{3}{20}\right)$$

$$= 8.53076561$$

$$= \underline{\underline{8.5^\circ}}$$

$$9) \quad \tan \hat{A} = 2\frac{1}{4}$$

$$\tan \hat{A} = \frac{9}{4}$$

$$\hat{A} = \tan^{-1}\left(\frac{9}{4}\right)$$

$$= 66.03751103$$

$$= \underline{\underline{66.0^\circ}}$$

$$10) \quad \tan \hat{A} = 1\frac{1}{2}$$

$$\tan \hat{A} = \frac{3}{2}$$

$$\hat{A} = \tan^{-1}\left(\frac{3}{2}\right)$$

$$= 56.30993247$$

$$\hat{A} = \underline{\underline{56.3^\circ}}$$

$$12) \quad \tan \hat{A} = 2\frac{2}{5}$$

$$\tan \hat{A} = \frac{12}{5}$$

$$\hat{A} = \tan^{-1}\left(\frac{12}{5}\right)$$

$$= 67.38013505$$

$$= \underline{\underline{67.4^\circ}}$$

$$15) \quad \tan \hat{A} = \frac{1}{6}$$

$$\hat{A} = \tan^{-1}\left(\frac{1}{6}\right)$$

$$= 9.462322208$$

$$= \underline{\underline{9.5^\circ}}$$

$$18) \quad \tan \hat{A} = \frac{5}{3}$$

$$\hat{A} = \tan^{-1}\left(\frac{5}{3}\right)$$

$$= 59.03624347$$

$$= \underline{\underline{59.0^\circ}}$$

$$24) \quad \tan \hat{A} = \frac{4}{3}$$

$$\hat{A} = \tan^{-1}\left(\frac{4}{3}\right)$$

$$= 53.13010235$$

$$= \underline{\underline{53.1^\circ}}$$

H/w → 3, 5, 11, 14, 23