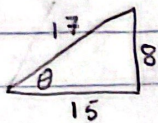


P32 # 6, 10, 12, 14, 20

6.



SOHCAHTOA

$$\sin \theta = \frac{8}{17}$$

$$\cos \theta = \frac{15}{17}$$

$$\tan \theta = \frac{8}{15}$$

$$\csc \theta = \frac{17}{8}$$

$$\sec \theta = \frac{17}{15}$$

$$\cot \theta = \frac{15}{8}$$

$$10. \tan \theta = 1 = \frac{\sin \theta}{\cos \theta} = 1$$

$$\frac{\sqrt{2}}{2} / \frac{\sqrt{2}}{2} = \pi/4 \quad \pi/4 + \pi = \frac{5\pi}{4}$$

$$\pi/4 \text{ and } 5\pi/4$$

$$12. \csc \theta = 2$$

$$\frac{1}{\sin \theta} = 2$$

$$= \frac{\pi}{6} \text{ and } \frac{5\pi}{6}$$

$$14. \sec \theta = 2$$

$$\frac{1}{\cos \theta} = 2$$

$$\frac{\pi}{3} \text{ and } \frac{5\pi}{3}$$

$$20. \sin \theta = \frac{3}{5} \text{ SOHCAHTOA}$$

$$\text{Adj} = 4$$

$$3^2 + b^2 = 25$$

$$9 + b^2 = 25$$

$$b^2 = \sqrt{16} = 4$$

$$\cos \theta = \frac{4}{5}$$

$$\tan \theta = \frac{3}{4}$$