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$$\sin \theta = \tan \theta \cos \theta = \left(\frac{5}{12}\right)\left(\frac{12}{13}\right) = \frac{5}{13}$$

$$\cos \theta = \frac{12}{13}$$

$$\tan \theta = \frac{5}{12}$$

$$\csc \theta = \frac{1}{\sin \theta} = \frac{1}{\frac{5}{13}} = \frac{13}{5}$$

$$\sec \theta = \frac{1}{\cos \theta} = \frac{1}{\frac{12}{13}} = \frac{13}{12}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta} = \frac{\frac{12}{13}}{\frac{5}{13}} = \frac{12}{5}$$