

Student Name: _____

Score: _____

Unit circle to find the trigonometric ratio

$$\text{Let } \csc \theta = -\frac{13}{12}, \quad 180^\circ < \theta < 270^\circ$$

Find the value of a given trigonometric ratio using unit circles:

$$\cos \theta =$$

$$\sec \theta =$$

$$\sin \theta =$$

$$\tan \theta =$$

$$\cot \theta =$$

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Answers:

$$\text{Let } \csc \theta = -\frac{13}{12}, \quad 180^\circ < \theta < 270^\circ$$

Find the value of a given trigonometric ratio using unit circles:

$$\cos \theta = -\frac{5}{13}$$

$$\sec \theta = -\frac{13}{5}$$

$$\sin \theta = -\frac{12}{13}$$

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

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