

Use the given values to evaluate the remaining trigonometric functions.

1)  $\sin \theta = \frac{2}{5}$ ;  $0^\circ < \theta < 90^\circ$

2)  $\tan \theta = \frac{\sqrt{3}}{4}$ ;  $0 < \theta < \frac{\pi}{2}$

$$x^2 + y^2 = r^2$$

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3)  $\sin \theta = \frac{1}{4}$ ;  $0 < \theta < \frac{\pi}{2}$

4)  $\cos \theta = -\frac{2}{3}$ ;  $90^\circ < \theta < 180^\circ$

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5)  $\csc \theta = \frac{\sqrt{11}}{3}$ ;  $\frac{\pi}{2} < \theta < \pi$

6)  $\sec \theta = -\frac{5}{4}$ ;  $90^\circ < \theta < 180^\circ$

$$x^2 + y^2 = r^2$$

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$$7) \sin \theta = -\frac{1}{3}; 180^\circ < \theta < 270^\circ$$

$$x^2 + y^2 = r^2$$

$$x = \underline{\hspace{1cm}} \quad y = \underline{\hspace{1cm}} \quad r = \underline{\hspace{1cm}}$$

$$\sin \theta = \underline{\hspace{1cm}} \quad \csc \theta = \underline{\hspace{1cm}}$$

$$\cos \theta = \underline{\hspace{1cm}} \quad \sec \theta = \underline{\hspace{1cm}}$$

$$\tan \theta = \underline{\hspace{1cm}} \quad \cot \theta = \underline{\hspace{1cm}}$$

$$8) \tan \theta = \frac{2}{3}; \pi < \theta < \frac{3\pi}{2}$$

$$x^2 + y^2 = r^2$$

$$x = \underline{\hspace{1cm}} \quad y = \underline{\hspace{1cm}} \quad r = \underline{\hspace{1cm}}$$

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$$9) \sec \theta = -\frac{7}{5}; 180^\circ < \theta < 270^\circ$$

$$x^2 + y^2 = r^2$$

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$$\tan \theta = \underline{\hspace{1cm}} \quad \cot \theta = \underline{\hspace{1cm}}$$

$$10) \cos \theta = \frac{1}{8}; \frac{3\pi}{2} < \theta < 2\pi$$

$$x^2 + y^2 = r^2$$

$$x = \underline{\hspace{1cm}} \quad y = \underline{\hspace{1cm}} \quad r = \underline{\hspace{1cm}}$$

$$\sin \theta = \underline{\hspace{1cm}} \quad \csc \theta = \underline{\hspace{1cm}}$$

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$$11) \cot \theta = -\frac{4}{3}; 270^\circ < \theta < 360^\circ$$

$$x^2 + y^2 = r^2$$

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$$\tan \theta = \underline{\hspace{1cm}} \quad \cot \theta = \underline{\hspace{1cm}}$$

$$12) \cot \theta = -8; \frac{3\pi}{2} < \theta < 2\pi$$

$$x^2 + y^2 = r^2$$

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