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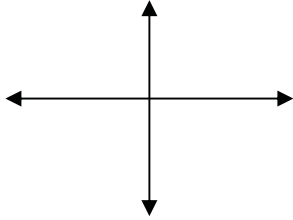
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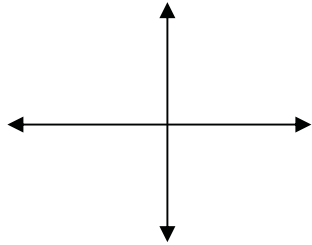
Trig Chapter 3 Review

Please write neatly in the space provided, showing all work. If the problem calls for an exact value, you may *not* use your calculator to evaluate the trig function.

1. For the angle, 585°
 - a. Draw the angle in standard position.
 - b. Convert to radian measure using exact values.
 - c. Name the reference angle in both degrees and radians.



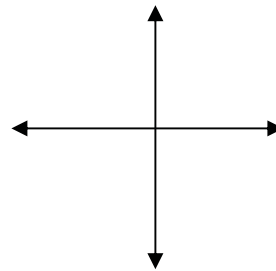
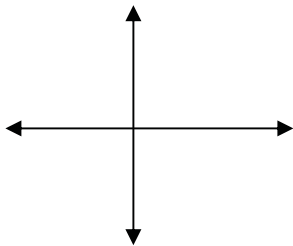
2. For the angle $\frac{10\pi}{3}$,
 - a. Convert to degree measure.
 - b. Draw the angle in standard position.
 - c. Name the reference angle in both degrees and radians.



3. Draw θ in standard position and name the reference angle.

a. 311.7°

b. $-120^\circ 15'$



4. Find the exact value for the following:

a. $\sec -120^\circ$

b. $\csc 570^\circ$

c. $\tan -45^\circ$

d. $\cos \frac{7\pi}{2}$

e. $\csc \frac{5\pi}{6}$

e. $\cot \frac{15\pi}{4}$

5. If $\cot \theta = -1.6977$ and θ lies in Q II, find θ to the nearest tenth of a degree is $0^\circ < \theta < 360^\circ$.

6. Complete the inequality:

$$\cos 35^\circ \underline{\hspace{1cm}} \cos 350^\circ$$

$$\cos 75^\circ \underline{\hspace{1cm}} \sin 75^\circ$$

7. If the minute hand of the clock is 10 inches long. What is the distance that the tip of the minute hand moves from 6:15 to 6:40?

8. A windshield wiper is 18 inches long, and rotates 75° . If the blade covers the entire wiper what is the area that the blade can clear off?

9. Is the point $\left(\frac{8}{\sqrt{89}}, \frac{5}{\sqrt{89}}\right)$ on the unit circle? Why or Why not?

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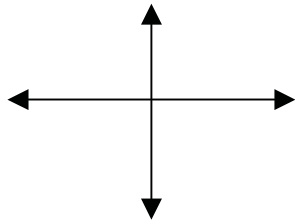
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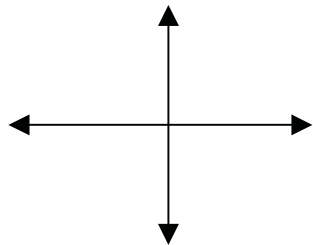
Trig Chapter 3 Review

Please write neatly in the space provided, showing all work. If the problem calls for an exact value, you may **not** use your calculator to evaluate the trig function.

1. For the angle, 585°
 - a. Draw the angle in standard position. Answer: In quadrant III
 - b. Convert to radian measure using exact values. Answer: $13\pi/4$
 - c. Name the reference angle in both degrees and radians. Answer: $\pi/4$ or 45°



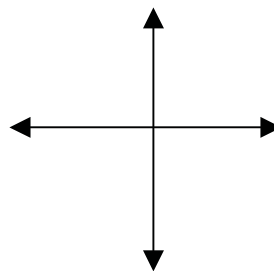
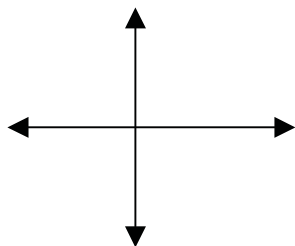
2. For the angle $\frac{10\pi}{3}$,
 - a. Convert to degree measure. Answer: 600°
 - b. Draw the angle in standard position.
 - c. Name the reference angle in both degrees and radians. Answer: 60° or $\pi/3$



3. Draw θ in standard position and name the reference angle.

a. 311.7° Answer: in quadrant IV 48.3°

b. $-120^\circ 15'$
answer: in quadrant III $59^\circ 45'$



4. Find the exact value for the following:

a. $\sec -120^\circ$ ans: -2

b. $\csc 570^\circ$ ans: -2

c. $\tan -45^\circ$
ans: -1

d. $\cos \frac{7\pi}{2}$ ans: 0

e. $\csc \frac{5\pi}{6}$ ans: 2

f. $\cot \frac{15\pi}{4}$
ans: -1

5. If $\cot \theta = -1.6977$ and θ lies in Q II, find θ to the nearest tenth of a degree is $0^\circ < \theta < 360^\circ$. Ans: 149.5°