

Acc Geo-Chp 13.3/13.6 Quiz 2020 B

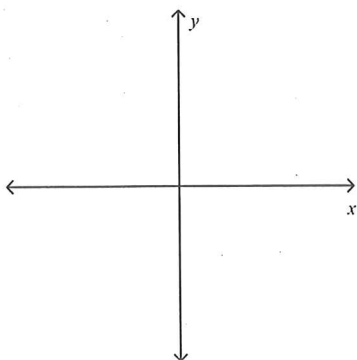
Short Answer

Show all work to receive credit.

Find the exact value, using the triangle method (without using the unit circle). You must show your sketch of the angle, reference angle, triangle (reference angle, right angle and side lengths), the point the horizontal and vertical components make, and your work. Failure to follow these instructions will result in loss of points. Please follow directions carefully.

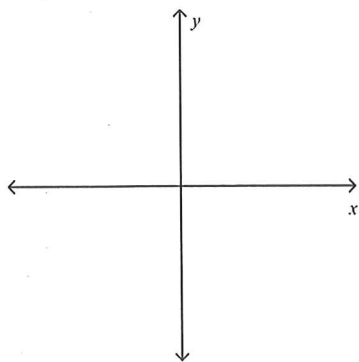
1. Find the exact value of
- $\cos(150^\circ)$

$$\cos(150^\circ) = \underline{\hspace{2cm}}$$



2. Find the exact value of
- $\cos\left(\frac{3\pi}{4}\right)$
- .

$$\cos\left(\frac{3\pi}{4}\right) = \underline{\hspace{2cm}}$$

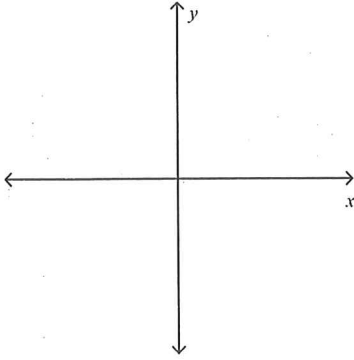


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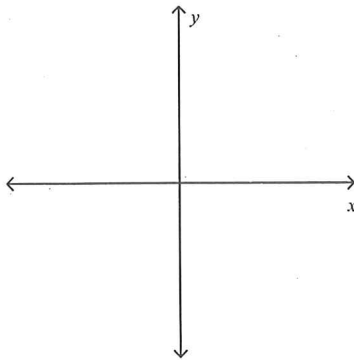
3. Find the exact value of $\tan(-90)^\circ$.

$$\tan(-90)^\circ = \underline{\hspace{2cm}}$$



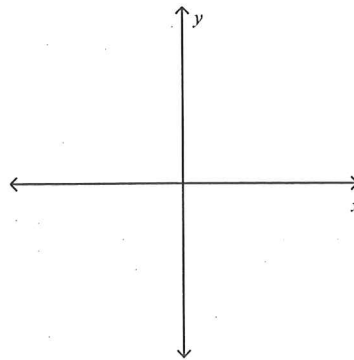
4. Find the exact value of $\tan\left(\frac{11\pi}{6}\right)$.

$$\tan\left(\frac{11\pi}{6}\right) = \underline{\hspace{2cm}}$$



5. Find the exact value of $\sec\left(\frac{13\pi}{6}\right)$

$$\sec\left(\frac{13\pi}{6}\right) = \underline{\hspace{2cm}}$$

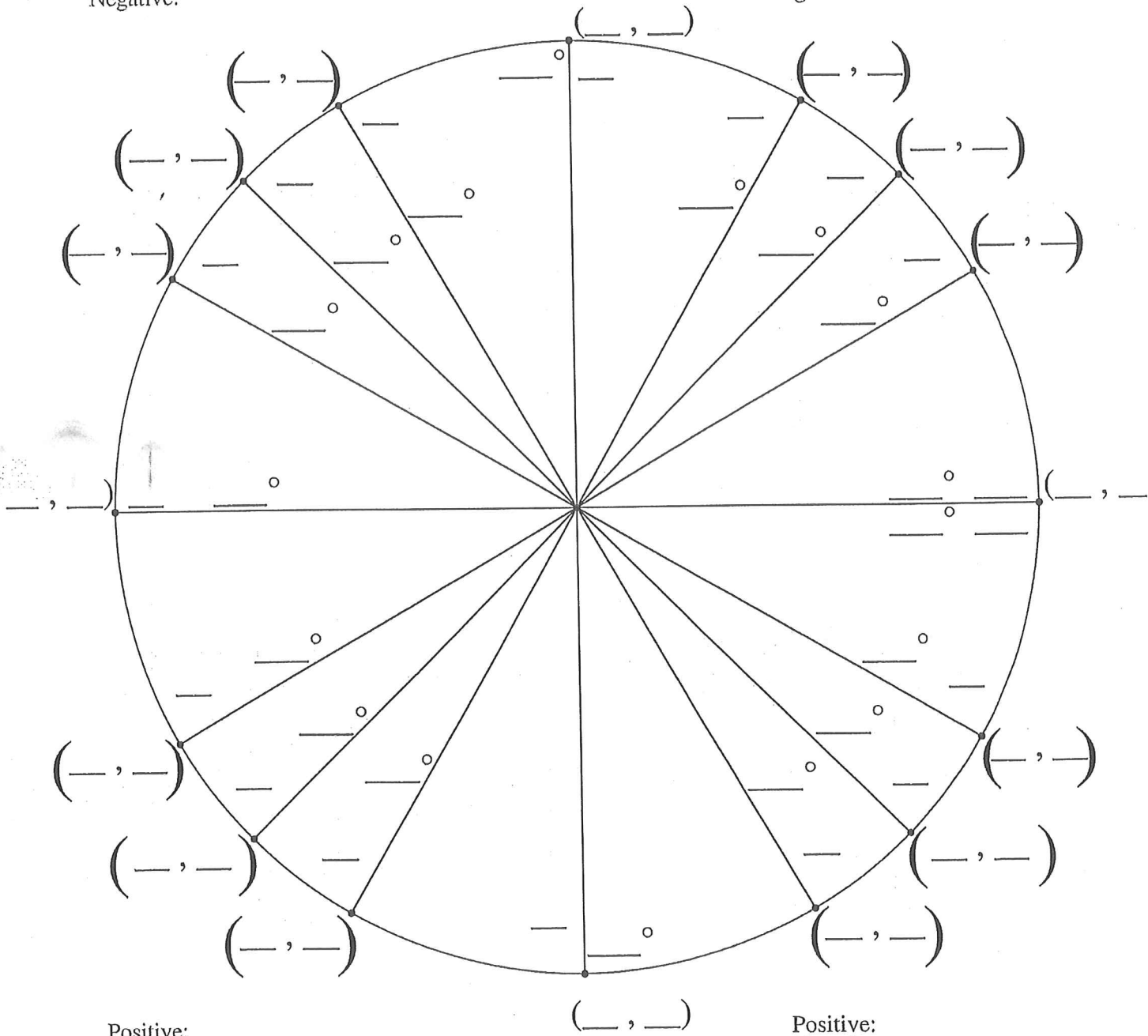


Show: Radions, degrees and points.
 + 2pts per quadrant

Fill in The Unit Circle

Positive:
 Negative:

Positive:
 Negative:



Positive:
 Negative:

Positive:
 Negative:

Find the exact value of each function by using the unit circle. Place the coordinates that correspond to the answer of the question under the question.

7. Find the exact value of $\cos(-420)^\circ$.

$\cos(-420)^\circ =$ _____

(_____, _____)

8. Find the exact value of $\cos 5\pi$

$\cos 5\pi =$ _____

(_____, _____)

9. Find the exact value of $\cos(-120)^\circ$

$\cos(-120)^\circ =$ _____

(_____, _____)

10. Find the exact value of $\csc(-420)^\circ$

$\csc(-420)^\circ =$ _____

(_____, _____)

11. Find the exact value of $\sin\left(-\frac{10\pi}{3}\right)$.

$\sin\left(-\frac{10\pi}{3}\right) =$ _____

(_____, _____)

12. Find the exact value of $\cos\left(-\frac{3\pi}{4}\right)$.

$\cos\left(-\frac{3\pi}{4}\right) =$ _____

(_____, _____)

13. Find the exact value of $\cot 450^\circ$.

$\cot 450^\circ =$ _____

(_____, _____)

14. Find the exact value of $\sin\left(\frac{7\pi}{3}\right)$

$\sin\left(\frac{7\pi}{3}\right) =$ _____

(_____, _____)

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15. Find the exact value of
$$\frac{\cos 60^\circ + \sin 30^\circ}{4}$$

$\cos 60^\circ =$ _____

$\sin 30^\circ =$ _____

$$\frac{\cos 60^\circ + \sin 30^\circ}{4} =$$

16. Find the exact value of
$$\frac{\sin 210^\circ + \cos 240^\circ}{3}$$

$\sin 210^\circ =$ _____

$\cos 240^\circ =$ _____

$$\frac{\sin 210^\circ + \cos 240^\circ}{3} =$$

17. Find the exact value of
$$3(\sin 60^\circ)(\cos 30^\circ)$$

$\sin 60^\circ =$ _____

$\cos 30^\circ =$ _____

$3(\sin 60^\circ)(\cos 30^\circ) =$ _____

18. Given point $P\left(\frac{40}{41}, -\frac{9}{41}\right)$ on the unit circle, find the value of $\sin \theta$ and $\cos \theta$.

$\sin \theta =$ _____

$\cos \theta =$ _____