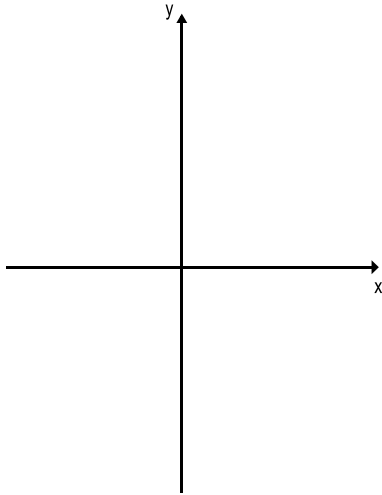


1. Sketch the angle formed with the x axis and the given point (-7, -12)



2. State the trigonometric ratios associated with this point in quadrant 3

SOH CAH TOA

3. State the exact measure of the reference angle

4. State the approximate measure of the reference angle

5. State the exact measure of the related quadrant 3 angle

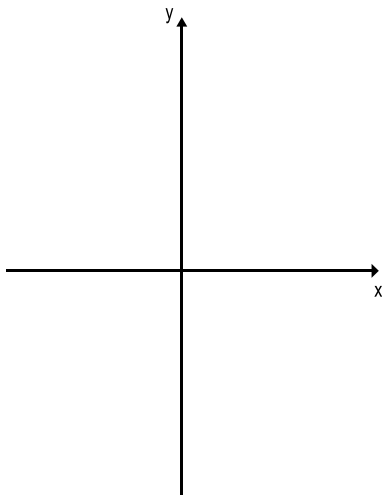
6. State the approximate measure of the related quadrant 3 angle

7. State two positive coterminal angles

8. State two negative coterminal angles

9. State ALL coterminal angles (failure to properly limit any variables will result in loss of points)

10. Sketch the angle formed with the x axis and the given point (-5, 12)



11. State the trigonometric ratios associated with this point in quadrant 2

SOH CAH TOA

12. State the exact measure of the reference angle

13. State the approximate measure of the reference angle

14. State the exact measure of the related quadrant 2 angle

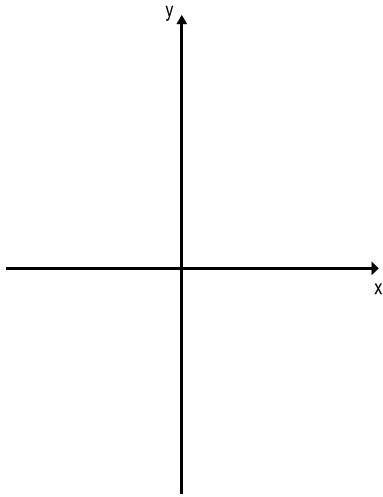
15. State the approximate measure of the related quadrant 2 angle

16. State two positive coterminal angles

17. State two negative coterminal angles

18. State ALL coterminal angles (failure to properly limit any variables will result in loss of points)

19. Sketch the angle formed with the x axis and the given point (7, -24)



20. State the trigonometric ratios associated with this point in quadrant 4

SOH CAH TOA
 _____ _____ _____

21. State the exact measure of the reference angle

22. State the approximate measure of the reference angle

23. State the exact measure of the related quadrant 4 angle

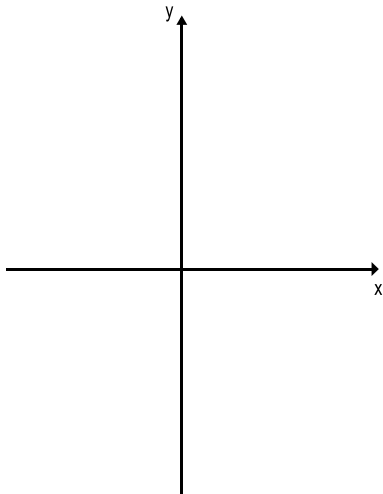
24. State the approximate measure of the related quadrant 4 angle

25. State two positive coterminal angles

26. State two negative coterminal angles

27. State ALL coterminal angles (failure to properly limit any variables will result in loss of points)

28. Sketch the angle -2759°



29. State the exact radian measure of the angle -2759°

30. State the approximate radian measure of the angle -2759°

31. State the number of COMPLETE rotations this angle represents

32. Which direction best describes this angle?

Clockwise Counter-clockwise

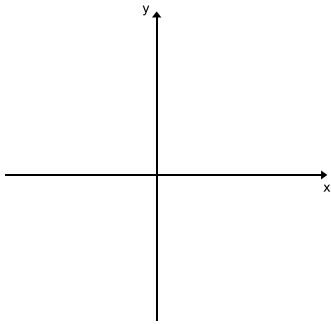
33. State the smallest positive coterminal angle related to this angle

34. State the negative coterminal angle that is closest to 0°

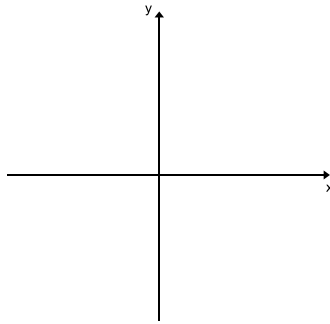
35. State ALL coterminal angles related to this angle (failure to properly limit any variables will result in loss of points)

Sketch the following angles on the provide axes

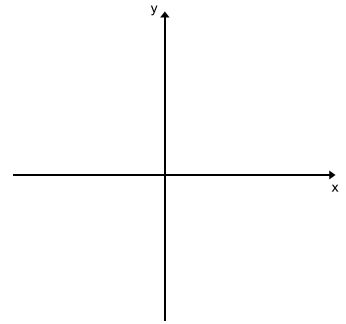
36. Sketch 3° on the axes below



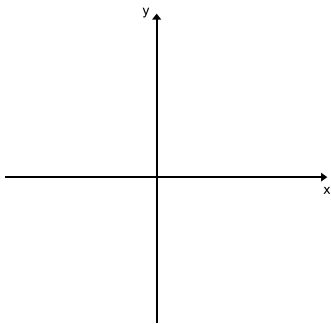
37. Sketch 3 radians on the axes below



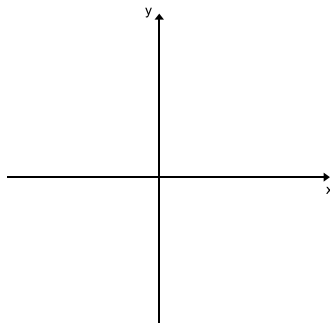
38. Sketch 3π radians on the axes below



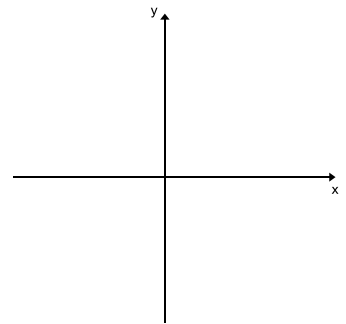
39. Sketch -3° on the axes below



40. Sketch -3 radians on the axes below



41. Sketch -3π radians on the axes below



This following six questions are worth 6% of the test grade, the previous questions will be used as a makeup quiz IF you do better on the test than the quiz, that will be your grade for the quiz

<p>1. State the complement of $\frac{3\pi}{13}$ if possible, if NOT state why not</p>	<p>2. State the supplement of $\frac{3\pi}{13}$ if possible, if NOT state why not</p>
<p>3. State the complement of $\frac{7\pi}{13}$ if possible, if NOT state why not</p>	<p>4. State the supplement of $\frac{7\pi}{13}$ if possible, if NOT state why not</p>
<p>5. State the smallest positive coterminal angle of $\frac{700\pi}{13}$</p>	<p>6. State the negative coterminal angle closest to zero related to $\frac{700\pi}{13}$</p>

DO NOT ATTEMPT UNTIL ALL OTHER QUESTIONS ARE COMPLETED!

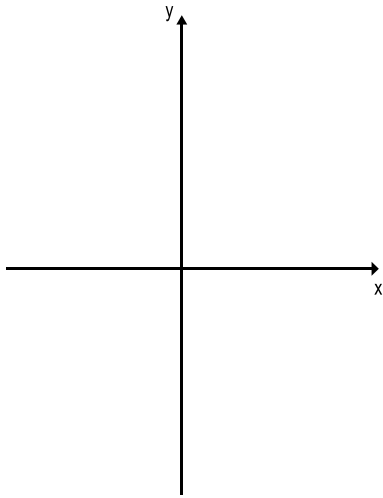
EXTRA CREDIT: USING RADIAN MEASURE, determine the angle, the complement of the angle, and the supplement of the angle related to the following statement:

The three times the complement of an angle is $\frac{2\pi}{3}$ radians less than twice its supplement

FAILURE TO CLEARLY JUSTIFY WORK WILL RESULT IN NO EXTRA CREDIT!

The angle is _____ The complement of the angle is _____ The supplement of the angle is _____

1. Sketch the angle formed with the x axis and the given point (-15,-12)



2. State the trigonometric ratios associated with this point in quadrant 3

SOH CAH TOA

3. State the exact measure of the reference angle

4. State the approximate measure of the reference angle

5. State the exact measure of the related quadrant 3 angle

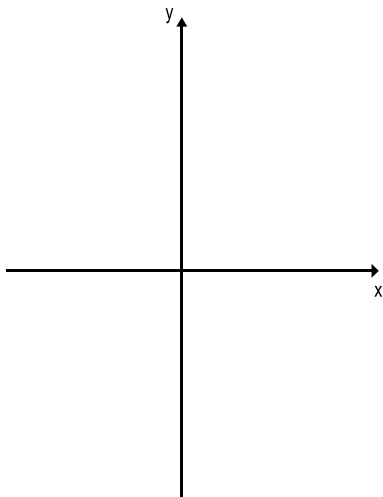
6. State the approximate measure of the related quadrant 3 angle

7. State two positive coterminal angles

8. State two negative coterminal angles

9. State ALL coterminal angles (failure to properly limit any variables will result in loss of points)

10. Sketch the angle formed with the x axis and the given point (-7, 24)



11. State the trigonometric ratios associated with this point in quadrant 2

SOH CAH TOA

12. State the exact measure of the reference angle

13. State the approximate measure of the reference angle

14. State the exact measure of the related quadrant 2 angle

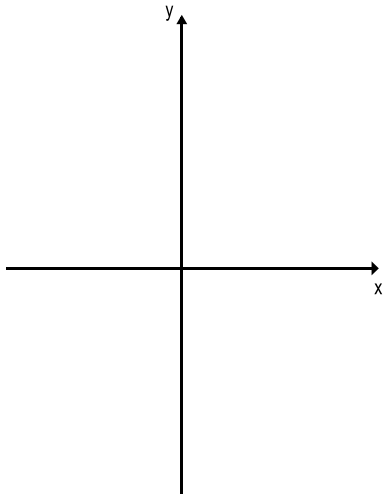
15. State the approximate measure of the related quadrant 2 angle

16. State two positive coterminal angles

17. State two negative coterminal angles

18. State ALL coterminal angles (failure to properly limit any variables will result in loss of points)

19. Sketch the angle formed with the x axis and the given point (12, -5)



20. State the trigonometric ratios associated with this point in quadrant 4

SOH CAH TOA
_____ _____ _____

21. State the exact measure of the reference angle

22. State the approximate measure of the reference angle

23. State the exact measure of the related quadrant 4 angle

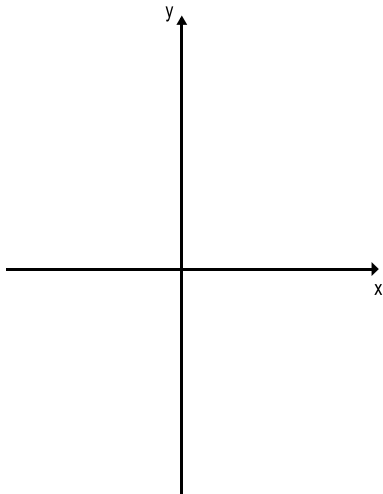
24. State the approximate measure of the related quadrant 4 angle

25. State two positive coterminal angles

26. State two negative coterminal angles

27. State ALL coterminal angles (failure to properly limit any variables will result in loss of points)

28. Sketch the angle -6759°



29. State the exact radian measure of the angle -6759°

30. State the approximate radian measure of the angle -6759°

31. State the number of COMPLETE rotations this angle represents

32. Which direction best describes this angle?

Clockwise Counter-clockwise

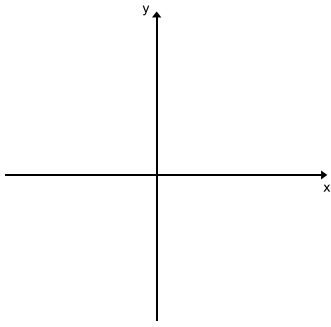
33. State the smallest positive coterminal angle related to this angle

34. State the negative coterminal angle that is closest to 0°

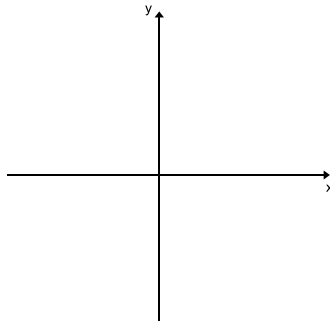
35. State ALL coterminal angles related to this angle (failure to properly limit any variables will result in loss of points)

Sketch the following angles on the provide axes

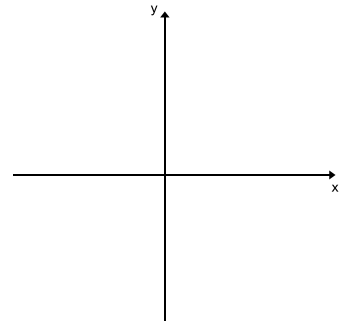
36. Sketch 7° on the axes below



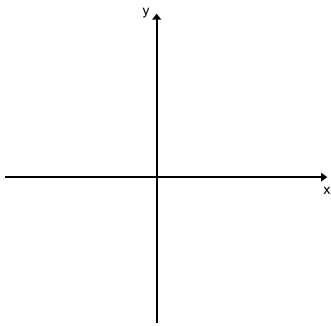
37. Sketch 7 radians on the axes below



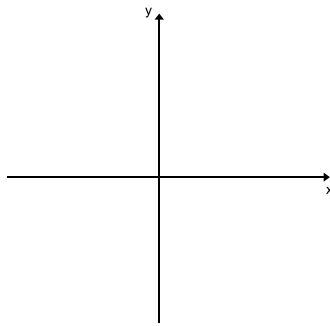
38. Sketch 7π radians on the axes below



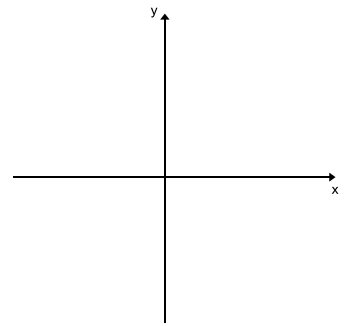
39. Sketch -7° on the axes below



40. Sketch -7 radians on the axes below



41. Sketch -7π radians on the axes below



This following six questions are worth 6% of the test grade, the previous questions will be used as a makeup quiz IF you do better on the test than the quiz, that will be your grade for the quiz

1. State the complement of $\frac{5\pi}{17}$ if possible, if NOT state why not	2. State the supplement of $\frac{5\pi}{17}$ if possible, if NOT state why not
3. State the complement of $\frac{8\pi}{17}$ if possible, if NOT state why not	4. State the supplement of $\frac{19\pi}{17}$ if possible, if NOT state why not
5. State the smallest positive coterminal angle of $\frac{900\pi}{17}$	6. State the negative coterminal angle closest to zero related to $\frac{900\pi}{17}$

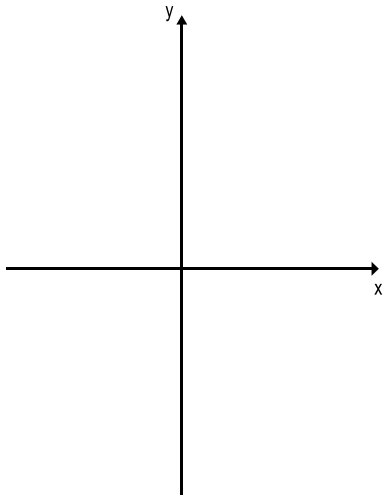
EXTRA CREDIT: USING RADIAN MEASURE, determine the angle, the complement of the angle, and the supplement of the angle related to the following statement:

The three times the complement of an angle is $\frac{2\pi}{3}$ radians less than twice its supplement

FAILURE TO CLEARLY JUSTIFY WORK WILL RESULT IN NO EXTRA CREDIT

The angle is _____ The complement of the angle is _____ The supplement of the angle is _____

1. Sketch the angle formed with the x axis and the given point (-18,-10)



2. State the trigonometric ratios associated with this point in quadrant 3

SOH CAH TOA
 _____ _____ _____

3. State the exact measure of the reference angle

4. State the approximate measure of the reference angle

5. State the exact measure of the related quadrant 3 angle

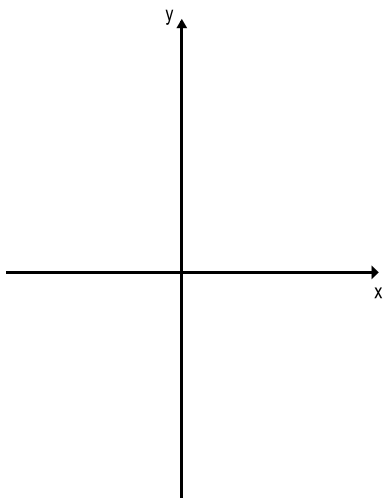
6. State the approximate measure of the related quadrant 3 angle

7. State two positive coterminal angles

8. State two negative coterminal angles

9. State ALL coterminal angles (failure to properly limit any variables will result in loss of points)

10. Sketch the angle formed with the x axis and the given point (-14, 48)



11. State the trigonometric ratios associated with this point in quadrant 2

SOH CAH TOA
 _____ _____ _____

12. State the exact measure of the reference angle

13. State the approximate measure of the reference angle

14. State the exact measure of the related quadrant 2 angle

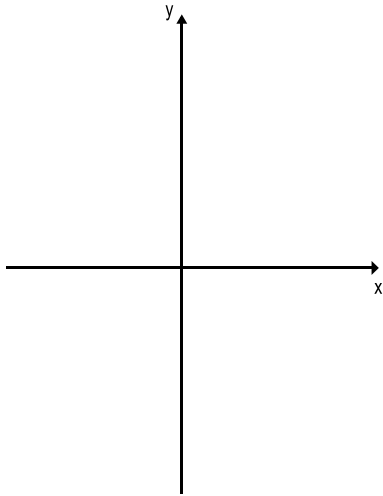
15. State the approximate measure of the related quadrant 2 angle

16. State two positive coterminal angles

17. State two negative coterminal angles

18. State ALL coterminal angles (failure to properly limit any variables will result in loss of points)

19. Sketch the angle formed with the x axis and the given point (10, -24)



20. State the trigonometric ratios associated with this point in quadrant 4

SOH CAH TOA
_____ _____ _____

21. State the exact measure of the reference angle

22. State the approximate measure of the reference angle

23. State the exact measure of the related quadrant 4 angle

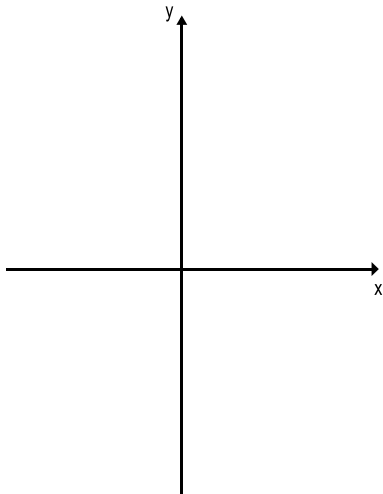
24. State the approximate measure of the related quadrant 4 angle

25. State two positive coterminal angles

26. State two negative coterminal angles

27. State ALL coterminal angles (failure to properly limit any variables will result in loss of points)

28. Sketch the angle -8759°



29. State the exact radian measure of the angle -8759°

30. State the approximate radian measure of the angle -8759°

31. State the number of COMPLETE rotations this angle represents

32. Which direction best describes this angle?

Clockwise Counter-clockwise

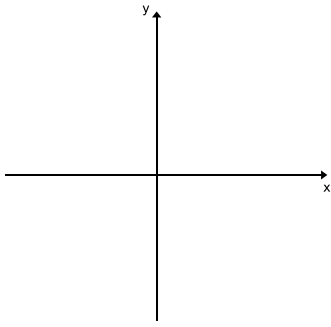
33. State the smallest positive coterminal angle related to this angle

34. State the negative coterminal angle that is closest to 0°

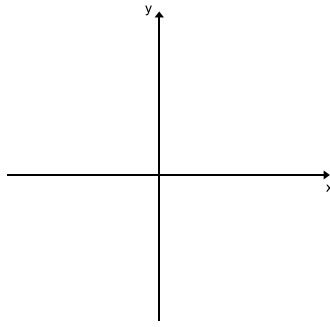
35. State ALL coterminal angles related to this angle (failure to properly limit any variables will result in loss of points)

Sketch the following angles on the provide axes

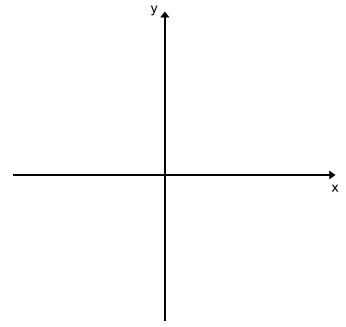
36. Sketch 9° on the axes below



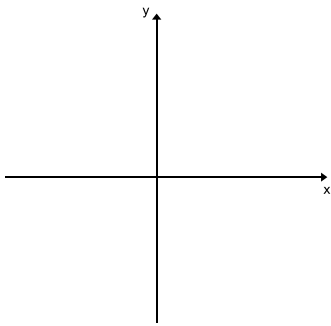
37. Sketch 9 radians on the axes below



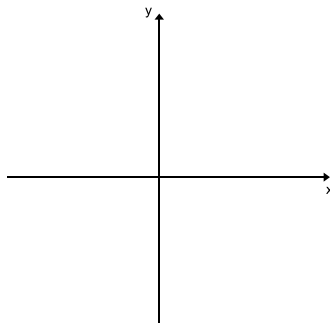
38. Sketch 9π radians on the axes below



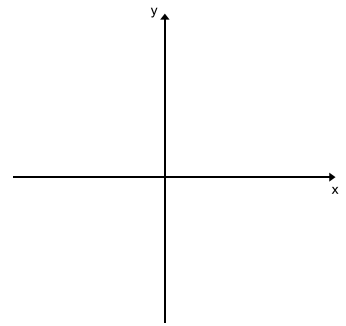
39. Sketch -9° on the axes below



40. Sketch -9 radians on the axes below



41. Sketch -9π radians on the axes below



The following six questions are worth 6% of the test grade, the previous questions will be used as a makeup quiz IF you do better on the test than the quiz, that will be your grade for the quiz

<p>1. State the complement of $\frac{8\pi}{19}$ if possible, if NOT state why not</p>	<p>2. State the supplement of $\frac{8\pi}{19}$ if possible, if NOT state why not</p>
<p>3. State the complement of $\frac{11\pi}{19}$ if possible, if NOT state why not</p>	<p>4. State the supplement of $\frac{11\pi}{19}$ if possible, if NOT state why not</p>
<p>5. State the smallest positive coterminal angle of $\frac{800\pi}{19}$</p>	<p>6. State the negative coterminal angle closest to zero related to $\frac{800\pi}{19}$</p>

EXTRA CREDIT: USING RADIAN MEASURE, determine the angle, the complement of the angle, and the supplement of the angle related to the following statement:

The three times the complement of an angle is $\frac{2\pi}{3}$ radians less than twice its supplement

FAILURE TO CLEARLY JUSTIFY WORK WILL RESULT IN NO EXTRA CREDIT

The angle is _____ The complement of the angle is _____ The supplement of the angle is _____