Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Test Angles in the coordinate plane 9-29-17 hour 1 2 3 4 5 6 7

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

 | 1. State the trigonometric ratios associated with this point in

quadrant 3SOH CAH TOA \_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_1. State the exact measure of the reference angle
2. State the approximate measure of the reference angle
3. State the exact measure of the related quadrant 3 angle
 | 1. State the approximate measure of the related quadrant 3 angle
2. State two positive coterminal angles
3. State two negative coterminal angles
4. State ALL coterminal angles

(failure to properly limit any variables will result in loss of points) |
| 1. Sketch the angle formed with the x axis and the given point (-5, 12)

 | 1. State the trigonometric ratios associated with this point in

quadrant 2SOH CAH TOA \_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_1. State the exact measure of the reference angle
2. State the approximate measure of the reference angle
3. State the exact measure of the related quadrant 2 angle
 | 1. State the approximate measure of the related quadrant 2 angle
2. State two positive coterminal angles
3. State two negative coterminal angles
4. State ALL coterminal angles

(failure to properly limit any variables will result in loss of points) |

|  |  |  |
| --- | --- | --- |
| 1. Sketch the angle formed with the x axis and the given point (7, -24)

 | 1. State the trigonometric ratios associated with this point in

quadrant 4SOH CAH TOA \_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_1. State the exact measure of the reference angle
2. State the approximate measure of the reference angle
3. State the exact measure of the related quadrant 4 angle
 | 1. State the approximate measure of the related quadrant 4 angle
2. State two positive coterminal angles
3. State two negative coterminal angles
4. State ALL coterminal angles

(failure to properly limit any variables will result in loss of points) |
| 1. Sketch the angle -2759°

 | 1. State the exact radian measure of the angle -2759°
2. State the approximate radian measure of the angle -2759°
3. State the number of COMPLETE rotations this angle represents
4. Which direction best describes this angle?

Clockwise Counter-clockwise | 1. State the smallest positive coterminal angle related to this angle
2. State the negative coterminal angle that is closest to 0°
3. 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 |
| 1. Sketch 3° on the axes below
 | 1. Sketch 3 radians on the axes below
 | 1. Sketch 3π radians on the axes below
 |
|  |  |  |
| 1. Sketch -3° on the axes below
 | 1. Sketch -3 radians on the axes below
 | 1. 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

|  |  |
| --- | --- |
| 1. State the complement of  if possible, if NOT state why not
 | 1. State the supplement of  if possible, if NOT state why not
 |
| 1. State the complement of  if possible, if NOT state why not
 | 1. State the supplement of  if possible, if NOT state why not
 |
| 1. State the smallest positive coterminal angle of
 | 1. State the negative coterminal angle closest to zero related to
 |

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  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\_\_\_\_\_\_\_

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Test Angles in the coordinate plane 9-29-17 hour 1 2 3 4 5 6 7

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

 | 1. State the trigonometric ratios associated with this point in

quadrant 3SOH CAH TOA \_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_1. State the exact measure of the reference angle
2. State the approximate measure of the reference angle
3. State the exact measure of the related quadrant 3 angle
 | 1. State the approximate measure of the related quadrant 3 angle
2. State two positive coterminal angles
3. State two negative coterminal angles
4. State ALL coterminal angles

(failure to properly limit any variables will result in loss of points) |
| 1. Sketch the angle formed with the x axis and the given point (-7, 24)

 | 1. State the trigonometric ratios associated with this point in

quadrant 2SOH CAH TOA \_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_1. State the exact measure of the reference angle
2. State the approximate measure of the reference angle
3. State the exact measure of the related quadrant 2 angle
 | 1. State the approximate measure of the related quadrant 2 angle
2. State two positive coterminal angles
3. State two negative coterminal angles
4. State ALL coterminal angles

(failure to properly limit any variables will result in loss of points) |

|  |  |  |
| --- | --- | --- |
| 1. Sketch the angle formed with the x axis and the given point (12, -5)

 | 1. State the trigonometric ratios associated with this point in

quadrant 4SOH CAH TOA \_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_1. State the exact measure of the reference angle
2. State the approximate measure of the reference angle
3. State the exact measure of the related quadrant 4 angle
 | 1. State the approximate measure of the related quadrant 4 angle
2. State two positive coterminal angles
3. State two negative coterminal angles
4. State ALL coterminal angles

(failure to properly limit any variables will result in loss of points) |
| 1. Sketch the angle -6759°

 | 1. State the exact radian measure of the angle -6759°
2. State the approximate radian measure of the angle -6759°
3. State the number of COMPLETE rotations this angle represents
4. Which direction best describes this angle?

Clockwise Counter-clockwise | 1. State the smallest positive coterminal angle related to this angle
2. State the negative coterminal angle that is closest to 0°
3. 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 |
| 1. Sketch 7° on the axes below
 | 1. Sketch 7 radians on the axes below
 | 1. Sketch 7π radians on the axes below
 |
|  |  |  |
| 1. Sketch -7° on the axes below
 | 1. Sketch -7 radians on the axes below
 | 1. 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  if possible, if NOT state why not
 | 1. State the supplement of  if possible, if NOT state why not
 |
| 1. State the complement of  if possible, if NOT state why not
 | 1. State the supplement of  if possible, if NOT state why not
 |
| 1. State the smallest positive coterminal angle of
 | 1. State the negative coterminal angle closest to zero related to
 |

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  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\_\_\_\_\_\_\_

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Test Angles in the coordinate plane 9-29-17 hour 1 2 3 4 5 6 7

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

 | 1. State the trigonometric ratios associated with this point in

quadrant 3SOH CAH TOA \_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_1. State the exact measure of the reference angle
2. State the approximate measure of the reference angle
3. State the exact measure of the related quadrant 3 angle
 | 1. State the approximate measure of the related quadrant 3 angle
2. State two positive coterminal angles
3. State two negative coterminal angles
4. State ALL coterminal angles

(failure to properly limit any variables will result in loss of points) |
| 1. Sketch the angle formed with the x axis and the given point (-14, 48)

 | 1. State the trigonometric ratios associated with this point in

quadrant 2SOH CAH TOA \_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_1. State the exact measure of the reference angle
2. State the approximate measure of the reference angle
3. State the exact measure of the related quadrant 2 angle
 | 1. State the approximate measure of the related quadrant 2 angle
2. State two positive coterminal angles
3. State two negative coterminal angles
4. State ALL coterminal angles

(failure to properly limit any variables will result in loss of points) |

|  |  |  |
| --- | --- | --- |
| 1. Sketch the angle formed with the x axis and the given point (10, -24)

 | 1. State the trigonometric ratios associated with this point in

quadrant 4SOH CAH TOA \_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_1. State the exact measure of the reference angle
2. State the approximate measure of the reference angle
3. State the exact measure of the related quadrant 4 angle
 | 1. State the approximate measure of the related quadrant 4 angle
2. State two positive coterminal angles
3. State two negative coterminal angles
4. State ALL coterminal angles

(failure to properly limit any variables will result in loss of points) |
| 1. Sketch the angle -8759°

 | 1. State the exact radian measure of the angle -8759°
2. State the approximate radian measure of the angle -8759°
3. State the number of COMPLETE rotations this angle represents
4. Which direction best describes this angle?

Clockwise Counter-clockwise | 1. State the smallest positive coterminal angle related to this angle
2. State the negative coterminal angle that is closest to 0°
3. 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 |
| 1. Sketch 9° on the axes below
 | 1. Sketch 9 radians on the axes below
 | 1. Sketch 9π radians on the axes below
 |
|  |  |  |
| 1. Sketch -9° on the axes below
 | 1. Sketch -9 radians on the axes below
 | 1. 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

|  |  |
| --- | --- |
| 1. State the complement of  if possible, if NOT state why not
 | 1. State the supplement of  if possible, if NOT state why not
 |
| 1. State the complement of  if possible, if NOT state why not
 | 1. State the supplement of  if possible, if NOT state why not
 |
| 1. State the smallest positive coterminal angle of
 | 1. State the negative coterminal angle closest to zero related to
 |

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  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\_\_\_\_\_\_\_