**Precalculus**  Name:\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_

Right Triangle/Unit Circle Trigonometry Review

1. Given θ = 240°
   1. Sketch the angle in standard position.
   2. Convert θ from degrees to radians.
   3. Find a positive and a negative coterminal angle. Express each answer in degrees and radians.

Positive coterminal angle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Degrees Radians

Negative coterminal angle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Degrees Radians

* 1. Find all six trigonometric functions of θ.

sin θ = csc θ =

cos θ = sec θ =

tan θ = cot θ =

2. Find the value of the indicated trigonometric functions for:

a.

sin θ = cos θ = tan θ =

b.

sin θ = cos θ = tan θ =

3. Find the value of the indicated trigonometric functions for:

a.

sin θ = cos θ = tan θ =

csc θ = sec θ = cot θ =

b.

sin θ = cos θ = tan θ =

csc θ = sec θ = cot θ =

4. Using special right triangles find value of the following trigonometric function. Each triangle has a hypotenuse of 1.

In this scenario***x = .***

|  |  |  |  |
| --- | --- | --- | --- |
| **Function/Angle** |  |  |  |
| **Sine** |  |  |  |
| **Cosine** |  |  |  |
| **Tangent** |  |  |  |
| **Cosecant** |  |  |  |
| **Secant** |  |  |  |
| **Cotangent** |  |  |  |