**Station 1**

* Understand and use the 6 trigonometric relationships of acute angles in triangles. (13.1)

Directions: Find the sine, cosine, tangent, cosecant, secant, and cotangent of the following angles.Write your answers as **reduced fractions.**

|  |  |  |
| --- | --- | --- |
| 1.) | 2.) | 3.) |

**Station 2**

* Determine side lengths of right triangles by using trigonometric functions. (13.1)

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| --- |
| 4.) |
| 5.) |

**Station 3**

* Sketch angles of rotation in standard position. (13.2)

Directions: Sketch the angle of rotation in standard position and demonstrate how to use the unit circle to approximate the .

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| --- | --- | --- |
| 6.) 500° | 7.) 225° | 8.) radians |

**Station 4**

* Find positive and negative coterminal angles of a given angle. (13.2)

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| --- | --- | --- | --- |
| 9.)  Define a coterminal angle. | 10.) | 11.) | 12.)  radians |

**Station 5**

* Convert angle measures between degrees and radians. (13.2)

|  |  |  |
| --- | --- | --- |
| 13.) | 14.) | 15.) |

**Station 6**

* Find the exact values of trigonometric functions on the UNIT CIRCLE. (13.3)

|  |  |  |
| --- | --- | --- |
| 16.) | 17.) | 18.) |

**Station 7**

* Recognize and graph trigonometric functions. (14.1)
* Students will be able to find the domain, range, amplitude, and period of a trigonometric function. (14.1)

Directions: Identify the transformations for each of the following functions. Then graph the function.

|  |  |
| --- | --- |
| 19.) | 20.) |