Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Graphing Trigonometric Functions that use RADIANS NOT DEGREES

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  state the translated version of this trigonometric function\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_State any extreme value points or intercepts in the IMPLIED period as POINTS when angles are measured in degrees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Label as Point K on graph below( , ) | Label as Point N on graph below( , ) | Label as point I on graph below( , ) | Label as point G on graph below( , ) | Label as point H on graph below( , ) |
| State each of these (these depend on A and D)

|  |  |  |
| --- | --- | --- |
| Range of the function | Equation of the Midline of the function | Amplitude of the function |

State each of these (these depend on B and C)

|  |  |  |
| --- | --- | --- |
| Length of ONE PERIOD of the function | Period that is IMPLIED by this function | PHASE Shift of this function(be certain to state direction and number) |

 | Sketch f(x) label the FIVE important points (use the letters from above) DRAW MIDLINE |

 |

Circle the related transformations

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| VerticalCompression | VerticalStretch | Vertical Reflection | HorizontalCompression | Horizontal Stretch | Phase Shift LEFT | Phase Shift RIGHT |

State Two Additional Periods of this function that ARE NOT the period IMPLIED ABOVE

Period to the RIGHT of this Implied Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period to the LEFT of this Implied Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   state the translated version of this trigonometric function\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_State any extreme value points or intercepts in the IMPLIED period as POINTS when angles are measured in degrees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Label as Point K on graph below( , ) | Label as Point N on graph below( , ) | Label as point I on graph below( , ) | Label as point G on graph below( , ) | Label as point H on graph below( , ) |
| State each of these (these depend on A and D)

|  |  |  |
| --- | --- | --- |
| Range of the function | Equation of the Midline of the function | Amplitude of the function |

State each of these (these depend on B and C)

|  |  |  |
| --- | --- | --- |
| Length of ONE PERIOD of the function | Period that is IMPLIED by this function | PHASE Shift of this function(be certain to state direction and number) |

 | Sketch g(x) label the FIVE important points (use the letters from above) |

 |

Circle the related transformations

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| VerticalCompression | VerticalStretch | Vertical Reflection | HorizontalCompression | Horizontal Stretch | Phase Shift LEFT | Phase Shift RIGHT |

State Two Additional Periods of this function that ARE NOT the period IMPLIED ABOVE

Period to the RIGHT of this Implied Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period to the LEFT of this Implied Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   state the translated version of this trigonometric function\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_State any extreme value points or intercepts in the IMPLIED period as POINTS when angles are measured in degrees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LEFT AsymptoteX = \_\_\_\_\_\_\_\_\_\_ | Label as Point N on graph below( , ) | Label as point I on graph below( , ) | Label as point G on graph below( , ) | RIGHT AsymptoteX = \_\_\_\_\_\_\_\_\_\_ |
| State each of these (these depend on A and D)

|  |  |
| --- | --- |
| Range of the function | Equation of the Midline of the function |

State each of these (these depend on B and C)

|  |  |  |
| --- | --- | --- |
| Length of ONE PERIOD of the function | Period that is IMPLIED by this function | PHASE Shift of this function(be certain to state direction and number) |

 | Sketch j(x) label the FIVE important points (use the letters from above) |

 |

Circle the related transformations

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| VerticalCompression | VerticalStretch | Vertical Reflection | HorizontalCompression | Horizontal Stretch | Phase Shift LEFT | Phase Shift RIGHT |

State Two Additional Periods of this function that ARE NOT the period IMPLIED ABOVE

Period to the RIGHT of this Implied Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period to the LEFT of this Implied Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  THIS IS STILL IN RADIANS state the translated version of this trigonometric function\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_State any extreme value points or intercepts in the IMPLIED period as POINTS when angles are measured in degrees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Label as Point K on graph below( , ) | Label as Point N on graph below( , ) | Label as point I on graph below( , ) | Label as point G on graph below( , ) | Label as point H on graph below( , ) |
| State each of these (these depend on A and D)

|  |  |  |
| --- | --- | --- |
| Range of the function | Equation of the Midline of the function | Amplitude of the function |

State each of these (these depend on B and C)

|  |  |  |
| --- | --- | --- |
| Length of ONE PERIOD of the function | Period that is IMPLIED by this function | PHASE Shift of this function(be certain to state direction and number) |

 | Sketch g(x) label the FIVE important points (use the letters from above) |

 |

Circle the related transformations

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| VerticalCompression | VerticalStretch | Vertical Reflection | HorizontalCompression | Horizontal Stretch | Phase Shift LEFT | Phase Shift RIGHT |

State Two Additional Periods of this function that ARE NOT the period IMPLIED ABOVE

Period to the RIGHT of this Implied Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period to the LEFT of this Implied Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_