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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Vertical  Compression | Vertical  Stretch | Vertical  Reflection | Horizontal  Compression | 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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Circle the related transformations

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Vertical  Compression | Vertical  Stretch | Vertical  Reflection | Horizontal  Compression | 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 Asymptote  X = \_\_\_\_\_\_\_\_\_\_ | Label as Point N on graph below  ( , ) | Label as point I on graph below  ( , ) | | Label as point G on graph below  ( , ) | RIGHT Asymptote  X = \_\_\_\_\_\_\_\_\_\_ | | 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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Vertical  Compression | Vertical  Stretch | Vertical  Reflection | Horizontal  Compression | 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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Vertical  Compression | Vertical  Stretch | Vertical  Reflection | Horizontal  Compression | Horizontal  Stretch | Phase Shift LEFT | Phase Shift RIGHT |

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