

Name _____ Graphing Trigonometric Functions that use RADIANS NOT DEGREES

$$f(x) = 5 \sin\left(x - \frac{\pi}{2}\right) - 3$$

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
(,)

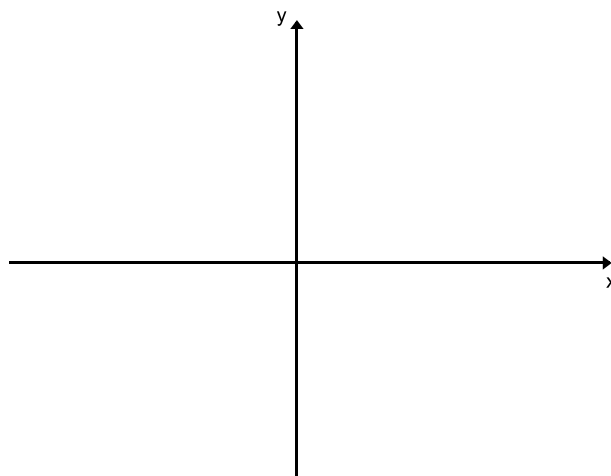
Label as point G on
graph below
(,)

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

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



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)

Circle the related transformations

Vertical Compression	Vertical Stretch	Vertical Reflection	Horizontal Compression	Horizontal Stretch	Phase Shift LEFT	Phase Shift RIGHT
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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 _____

$$g(x) = \frac{3}{4} \cos\left(-5x + \frac{\pi}{3}\right) + 2$$

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
(,)

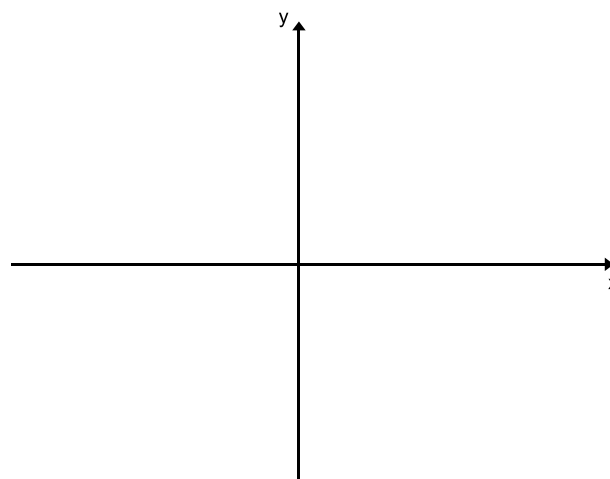
Label as point G on
graph below
(,)

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

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



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)

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 _____

$$j(x) = \frac{5}{2} \tan\left(5x + \frac{\pi}{12}\right)$$

state the translated version of this trigonometric function_____

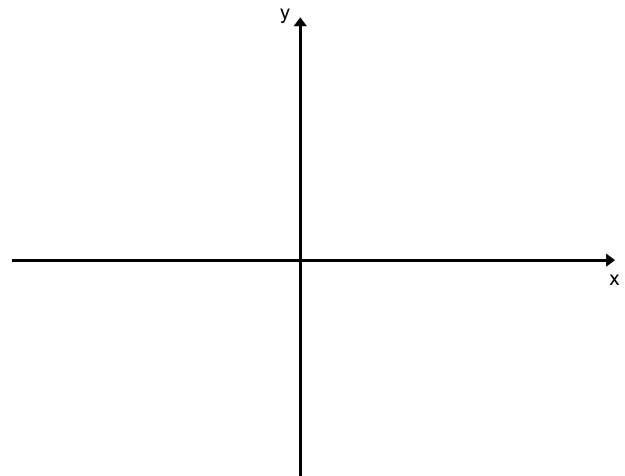
State any extreme value points or intercepts in the IMPLIED period as POINTS when angles are measured in degrees

LEFT Asymptote	Label as Point N on graph below	Label as point I on graph below	Label as point G on graph below	RIGHT Asymptote
X = _____	(,)	(,)	(,)	X = _____

State each of these (these depend on A and D)

Range of the function	Equation of the Midline of the function

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



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)

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 _____

$$k(x) = \frac{5}{4} \sin\left(\frac{6}{5}x - 12\right) + 4 \quad \text{THIS IS STILL IN RADIANS}$$

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
(,)

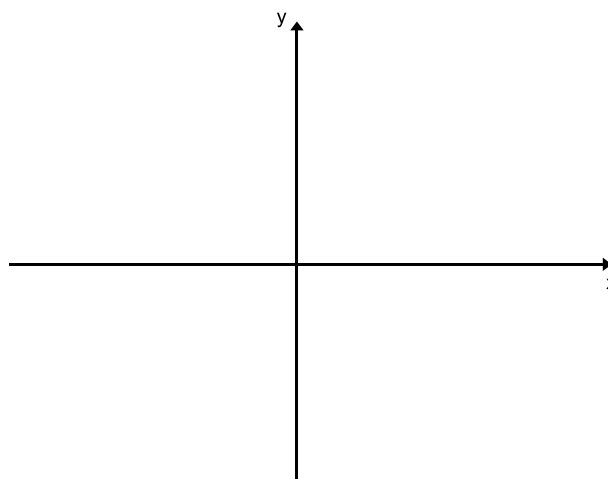
Label as point G on
graph below
(,)

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

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



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)

Circle the related transformations

Vertical Compression	Vertical Stretch	Vertical Reflection	Horizontal Compression	Horizontal Stretch	Phase Shift LEFT	Phase Shift RIGHT
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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 _____