Inverse Trigonometric Functions

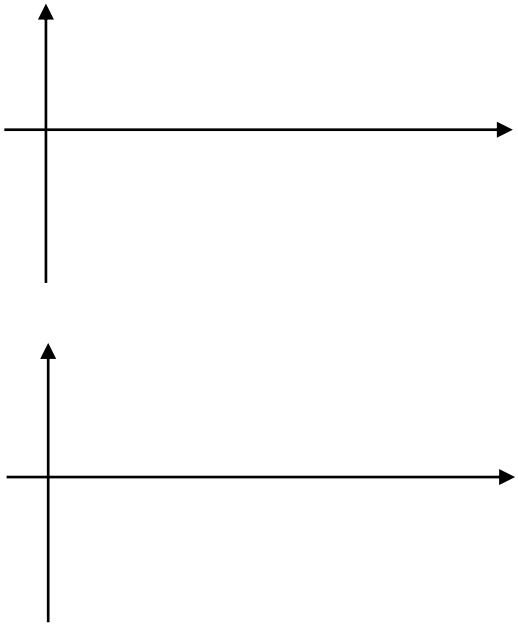
Recall: Inverse _____ and _____

Do: find inverse of _____ find inverse of _____

Recall: Basic Trigonometry Skills

Do: Construct _____ Do: sketch one period of _____ and

one period of _____



Notations

if _____ then _____ OR _____

[This notation applies to all _____ functions.]

_____ pairs _____ each other: ex.

similarly:

Given _____ x ( ) represents _____

y ( ) represents _____

ex. when x = _____, y = _____

i.e., _____ then it follows that _____

On _____, look up _____ to determine _____

ex. evaluate _____ Do: evaluate _____

ex. evaluate _____ Do: evaluate _____

ex. evaluate _____ Do: evaluate _____

Inverse Sine Graph

Recall: when a function's graph _____, its _____ must be _____

so it can have an _____

restrict _____ of _____ to _____ so it passes _____

Evaluate Negative Angles with Inverse Sine Function

Know:

ex. Evaluate _____

Technique:

due to the _____ of the graph, the answer's _____ gets _____

Inverse Cosine Graph

restrict _____ of _____ to _____ so it passes _____

Do: Evaluate _____

Do: Evaluate _____

Evaluate Negative Angles with Inverse Cosine Function

Know:

ex. Evaluate _____

Technique: find _____ angle using its _____ angle

Evaluating Composed Inverse Trigonometric Functions

ex. Evaluate _____

ex. Evaluate _____

ex. Why is there no solution for _____?

ex. Rewrite _____ in terms of ____ without any _____ functions

Inverse Trigonometric Applications – Fall/Spring Only

ex. Suppose a _____ leans on a wall.

The _____ of the _____ touches _____ up the wall.

What is the _____ made by the _____ and the _____?

What is the _____ made by the _____ and the _____?

Inverse Tangent Graph