IB Pre HL Reciprocal Parent Functions Name

3. 

a. Complete the table without a calculator.

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1. 

a. Complete the table without a

calculator.

b.  is already graphed for you. Plot the points from your table for  and draw a smooth curve (with asymptotes) through the points.



c. Remembering that  is a periodic function, extend the curve to fill the domain shown in the graph.

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2. 

a. Complete the table without a

calculator.

b.  is already graphed for you. Plot the points from your table for  and draw a smooth curve (with asymptotes) through the points.



c. Remembering that  is a periodic function, extend the curve to fill the domain shown in the graph.

3. 

a. Complete the table without a calculator.

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b.  is already graphed for you. Plot the points from your table for  and draw a smooth curve (with asymptotes) through the points.



c. Remembering that  is a periodic function, extend the curve to fill the domain shown in the graph.

\*\*When sketching a graph of a reciprocal function, find the graph of the “original” function first, THEN graph the reciprocal function. The asymptotes occur when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.\*\*

Example: Sketch a complete graph of .

Step 1: Sketch a graph of  with a dotted line.

Amp:  Period: 

P.S.: right  Axis:  Step 2: Add the graph of  with a solid line.



Practice)

Sketch a complete graph.

1.  2.  3. 

4.  5.  6. 

Find the equation(s) of the function(s) for each graph.

7. 2 functions 8. 1 function 9. 2 functions

10. 1 function 11. 2 functions 12. 2 functions

