IB Pre HL Ch 6 (Complex numbers) IB questions Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.



1. Given z is the complex number, , and . Find 
2. Find  when 

 

5



6.



7

  is a root of . Find all possible values of a and b.

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Chapter 6 Exit Slip Period: \_\_\_\_\_

**No Calculators!!**

**Simplify**

**1.  2. **

3. Simplify  and writewhere

4. Solve for  and : 

5. Write the equation, , that have a root of.