IB Math HL 2 Series II Exit Slip 1 Name

Problems 1 – 4: a. Find the radius of convergence. b. Find the interval of convergence.

1.  2.  3.  4. 

2. Consider .

a. Find the 4th degree Maclaurin polynomial. b. Hence write infinite terms of the polynomial in sigma notation.

3. Find the 3rd degree Maclaurin polynomial for .

4. Find the nth Taylor polynomial centered at c.

a. , n = 3, c = 3 b. , n = 4, c = 5 c. , n = 5, c =

5. Determine the number of terms required to approximate the sum with an error of less than 0.001.

a.  b. 

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