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| **MATHEMATICS DEPARTMENT** | |  |
| **Course:** **ATMAA** | |
| **Topic Title**: **Skills Test 2** | |
| Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_2016 | | |
| Special Instructions: No Calculators | Time Allowed: 15 mins | | |
|  | Marks: / 8 | | |

**Question 1**

State a recursive formula for the following sequence

0.5, 1, 2, 4, 8, 16, . . .

**Question 2**

Determine the first five terms for the following recursive formula

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**Question 3**

A sequence is defined by:

Find the

a)

b)

**Question 4**

Determine the general form expression for the following arithmetic sequence:

3, 6, 12, 24, 48, . . . ,