[1] Find a formula for the n th term of the following sequences

(i)  (ii) 

(iii) 

[2] In the following, which of the sequences converge and which diverge. Find the limit of each convergent sequence:

(1)  (2)  (3) 

(4)  (5)  (6) 

(7)  (8)  (9) 

(10)  (11)  (12) 

(13)  (14)  (15) 

[3] State whether the following sequence increasing, decreasing or neither ?

(1)  (2)  (3) 