

Answers

(i) 
$$\sum_{n=0}^{\infty} (-1)^n x^n - | \angle x \angle 1 |$$

(i)  $\sum_{n=0}^{\infty} (-1)^n x^n - | \angle x \angle 1 |$ 

(ii)  $\sum_{n=0}^{\infty} (x)^n - | \angle x \angle 1 |$ 

(iii)  $\sum_{n=0}^{\infty} (x)^n - | \angle x \angle 1 |$ 

(iv)  $\sum_{n=0}^{\infty} (x)^n - | \angle x \angle 1 |$ 

(iii)  $\sum_{n=0}^{\infty} (-1)^n n x^{n-1} = \sum_{n=0}^{\infty} (-1)^n (n+1) x^n - | \angle x \angle 1 |$ 

(iv)  $\sum_{n=0}^{\infty} (x)^n - | \angle x \angle 1 |$ 

(iii)  $\sum_{n=0}^{\infty} (x)^n - | \angle x \angle 1 |$ 

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