**Exercise-8.1**

Question 1: Expand the expression

Answer: - By using Binomial Theorem, the expression

Question 2: Expand the expression

Answer:-

Question 3: Expand the expression

Answer:

Question 4: Expand the expression

Answer: By using Binomial Theorem, the expression

Question 5: Expand

Answer:

Question 6: Using Binomial Theorem, evaluate

Answer:

Question 7: Using Binomial theorem, evaluate

Answer:

Question 8: Using Binomial Theorem, evaluate

Answer:

Question 9: Using Binomial Theorem, evaluate

Answer:

Question 10: Using Binomial Theorem, indicate which number

Answer: By splitting 1.1 and then applying Binomial theorem, the first few terms of

Question 11: Find

Answer:

Question 12:

Answer:

Now putting x=

Question 13:

Answer: In order to show that

Question 14:

Answer: By Binomial Theorem,

**Exercise-8.2**

Question 1: Find the Coefficient of

Answer: It is known that

Question 2:

Answer :