

M.K.G.S.

Subject:- Mathematics

Date:- 12/06/2012

Page No.:- 3268

Class:- IX

Section:- A

Topic:- Algebraic Expressions

Question:- Find the value of the following expressions when x = 2 and y = 3

(i) $x^2 + y^2$

(ii) $x^2 - y^2$

(iii) x^2y^2

(iv) $x^2 + xy + y^2$

(v) $x^2 - xy + y^2$

(vi) $x^2 + x^2y^2$

(vii) $x^2y^2 + x^2y^2$

(viii) $x^2y^2 + x^2y^2 + x^2y^2$

(ix) $x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2$

(x) $x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2$

Answers:-

(i) $x^2 + y^2 = 2^2 + 3^2 = 4 + 9 = 13$

(ii) $x^2 - y^2 = 2^2 - 3^2 = 4 - 9 = -5$

(iii) $x^2y^2 = 2^2 \times 3^2 = 4 \times 9 = 36$

(iv) $x^2 + xy + y^2 = 2^2 + 2 \times 3 + 3^2 = 4 + 6 + 9 = 19$

(v) $x^2 - xy + y^2 = 2^2 - 2 \times 3 + 3^2 = 4 - 6 + 9 = 7$

(vi) $x^2 + x^2y^2 = 2^2 + 2^2 \times 3^2 = 4 + 4 \times 9 = 4 + 36 = 40$

(vii) $x^2y^2 + x^2y^2 = 2^2 \times 3^2 + 2^2 \times 3^2 = 4 \times 9 + 4 \times 9 = 36 + 36 = 72$

(viii) $x^2y^2 + x^2y^2 + x^2y^2 = 3 \times (2^2 \times 3^2) = 3 \times (4 \times 9) = 3 \times 36 = 108$

(ix) $x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2 = 4 \times (2^2 \times 3^2) = 4 \times (4 \times 9) = 4 \times 36 = 144$

(x) $x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2 = 5 \times (2^2 \times 3^2) = 5 \times (4 \times 9) = 5 \times 36 = 180$

Ques:- Find the value of the following expressions when x = 2 and y = 3

(i) $x^2 + y^2$

(ii) $x^2 - y^2$

(iii) x^2y^2

(iv) $x^2 + xy + y^2$

(v) $x^2 - xy + y^2$

(vi) $x^2 + x^2y^2$

(vii) $x^2y^2 + x^2y^2$

(viii) $x^2y^2 + x^2y^2 + x^2y^2$

(ix) $x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2$

(x) $x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2$

Ans:-

(i) $x^2 + y^2 = 2^2 + 3^2 = 4 + 9 = 13$

(ii) $x^2 - y^2 = 2^2 - 3^2 = 4 - 9 = -5$

(iii) $x^2y^2 = 2^2 \times 3^2 = 4 \times 9 = 36$

(iv) $x^2 + xy + y^2 = 2^2 + 2 \times 3 + 3^2 = 4 + 6 + 9 = 19$

(v) $x^2 - xy + y^2 = 2^2 - 2 \times 3 + 3^2 = 4 - 6 + 9 = 7$

(vi) $x^2 + x^2y^2 = 2^2 + 2^2 \times 3^2 = 4 + 4 \times 9 = 4 + 36 = 40$

(vii) $x^2y^2 + x^2y^2 = 2^2 \times 3^2 + 2^2 \times 3^2 = 4 \times 9 + 4 \times 9 = 36 + 36 = 72$

(viii) $x^2y^2 + x^2y^2 + x^2y^2 = 3 \times (2^2 \times 3^2) = 3 \times (4 \times 9) = 3 \times 36 = 108$

(ix) $x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2 = 4 \times (2^2 \times 3^2) = 4 \times (4 \times 9) = 4 \times 36 = 144$

(x) $x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2 + x^2y^2 = 5 \times (2^2 \times 3^2) = 5 \times (4 \times 9) = 5 \times 36 = 180$

1. ተደረገ ተከራይ ይ ከደረሰ ስለም ተፈጻሚ ተደረገ
ተወካና በተደረገ ተፈጻሚ ተደረገ ተፈጻሚ ተደረገ
1. ተደረገ ተፈጻሚ ተደረገ ተፈጻሚ ተደረገ

የኢትዮጵያ ከተማ ደንብ ቅድመ ስራው ይችላል፡፡

የኢትዮጵያውያንድ የፌዴራል ተስፋዎች አገልግሎት ስምምነት ተረጋግጧል፡፡

תל אביב 110092

ପାତା କରିବାର
ପାତା କରିବାର

9716-12/31-14/2012 3268/