

Work sheet

Class – 6

Chap-2 (Algebraic Expressions)

E.X-4.3

Date 12/07/2020

1. Observe the algebraic expressions below

i.  $6a^2 - 2ab + 9b^2$

ii.  $-5b^2 + 7ab + 6a^2$

- If  $a=1$  and  $b=0$ , then find the value of the expressions (i)
- Find the summation of expressions i and ii
- Which expressions should be added with the first expressions so that summation is  $6b^2$  more than the second expressions?

2.  $5ax + 2by - 15cz$ ,  $-11by - 6ax - 8cz$ ,  $3ax + 8by - 6cz$  are three data

- What is the similar data of  $2by$
- Find the summation of three data
- what is added with the subtractor of 2<sup>nd</sup> and 3<sup>rd</sup> data to make  $ax + by + cz$ ?

3.  $3(x+y) - 4(y+z) + 5(z+x)$  is an algebraic data

- what is coefficient?
- what is the meaning  $3(x+y)$  and  $4(y+z)$
- simplifies the above equation

4. Observe the algebraic expressions below

i.  $4xy - 10y - 18x$

ii.  $24xy - 10y - 8x$

- Subtract i from ii

b. What should be added to  $x^2 + \quad + y^2$  to obtain  $2x^2 + 3xy$ ?

c. Subtract  $a^3 - 4a^2 + 5a - 6$  from the sum of  $3a^3 + a^2 + 1$  and  $a^2 - 2$ ?