HW 01/10/21

Ch-18 Fundamental Concepts

2) For each of the following algebraic expressions, write a suitable statement in words.

i) $3x+8=15$ → Sum of $3x$ and 8 is equal to 15.

ii) $7-y>x$ → Difference between 7 and y is greater than x.

iii) $2y-x<12$ → Difference between $2y$ and x is smaller than 12.

iv) $5 \div z=5$ → 5 is divided by z is equal to 5.

v) $a+2b>18$ → Sum of a and $2b$ is greater than 18.

vi) $2x-3y=16$ → Difference between $2x$ and $3y$ is equal to 16.

vii) $3a-4b>14$ → Difference between $3a$ and $4b$ is greater than 14.

viii) $b+7a<21$ → Sum of b and $7a$ is smaller than 21.

ix) $(16+2a)-x>25$ → Sum of 16 and $2a$ is decreased by x is greater than 25.

x) $(3x+12)-y<3a$ → Sum of $3x$ and 12 is decreased by y is smaller than $3a$.

Exercise - 18B

3) State wheather true or false :-

i) 16 is a constant and y is a variable, but 16y variable - True

ii) 5x has two terms 5 and x - False

iii) The expression $5+x$ has two terms 5 and x. True

iv) The expression $2x^2+x$ is a trinomial - False

v) ax^2+bx+c is a trinomial - True

vi) $8 \times ab$ is a binomial - False

vii) $8+ab$ is a binomial - True

viii) $x^3-5xy+6x+7$ is a polynomial - True

ix) $x^3-5xy+6x+7$ is a multinomial - True

x) The coefficient of x is 5x is 5x - False

xi) The coefficient of ab in $-ab$ is -1 - True

xii) The coefficient of y in $-3xy$ is -3 - False

5) State weather true or false -

i) xy and $-yx$ are like terms - True

ii) x^2y and $-y^2x$ are like terms - False

iii) a and -a are like terms - True

iv) -ba and 2ab are unlike terms - False

v) 5 and 5x are like terms - False

vi) $3xy$ and $4xyz$ are unlike terms - True

7) Write down the coefficient of x in the following monomials:-

i) $x \rightarrow 1$

ii) $-x \rightarrow -1$

iii) $-3x \rightarrow -3$

iv) $-5ax \rightarrow -5a$

v) $\frac{3}{2}xy \rightarrow \frac{3}{2}y$

vi) $\frac{ax}{y} \rightarrow \frac{a}{y}$