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

i) $3x + 8 = 15$: The sum of $3x$ and 8 is equal to 15.

ii) $7 - y > x$: 7 decreased by y is greater than x.

iii) $2y - x < 12$: $2y$ decreased by x is less than 12.

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

v) $a + 2b > 18$: a increased by $2b$ is greater than 18.

vi) $2x - 3y = 16$: $2x$ decreased by $3y$ is equal to 16.

vii) $3a - 4b > 14$: $3a$ decreased by $4b$ is greater than 14

viii) $b + 7a < 21$: b increased by $7a$ is less than 21.

ix) $(16 + 2a) \div x > 25$: The sum of 16 and $2a$ decreased by x is greater than 25.

x) $(3x + 12) - Y < 3a$: The sum of $3x$ and 12 decreased by Y is less than $3a$

3. State True or false:

i) 16 is a constant and y is a variable but 16y is 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 y in $-3xy$ is -3. False

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

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

5. State 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) $x = 1$

ii) $-x = -1$

iii) $-3x = -3$

iv) $-5ax = -5a$

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

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