

EXERCISE 18(A)

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

i)  $3x + 8 = 15$

Ans → The sum of  $3x$  and  $8$  is equal to  $15$ .

ii)  $7 - y > x$

Ans →  $7$  decreased by  $y$  is greater than  $x$ .

iii)  $2y - x < 12$

Ans →  $2y$  decreased by  $x$  is less than  $12$ .

iv)  $5 \div z = 5$

Ans →  $5$  divided by  $z$  is equal to  $5$ .

v)  $a + 2b > 18$

Ans → The sum of  $a$  and  $2b$  is greater than  $18$ .

vi)  $2x - 3y = 16$

Ans →  $2x$  decreased by  $3y$  is equal to  $16$ .

vii)  $3a - 4b > 14$

Ans →  $3a$  decreased by  $4b$  is greater than  $14$ .

viii)  $b + 7a < 21$

Ans) The sum of  $b$  and  $7a$  is less than 21.

ix)  $(16 + 2a) - x > 25$

Ans) The sum of 16 and  $2a$  decreased by  $x$  is greater than 25.

x)  $(3x + 12) - y < 3a$

Ans) The sum of  $3x$  and 12 decreased by  $y$  is less than  $3a$ .EXERCISE 18CB)

3. State whether true or false:

i) 16 is a constant and  $y$  is a variable, but  $16y$  is a variable. Trueii)  $5x$  has two terms 5 and  $x$ . Falseiii) The expression  $5+x$  has two terms 5 and  $x$ . Trueiv) The expression  $2x^2 + x$  is a trinomial. Falsev)  $ax^2 + bx + c$  is a trinomial. Truevi)  $8xab$  is a binomial. True Falsevii)  $8 + ab$  is a binomial. True

ix)  ~~$x^2$~~

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

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

x) The coefficient of  $x$  in  $5x$  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 whether 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. ~~True~~ 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 monomial

i) Coefficient of  $x$  in  $x = 1$

ii) Coefficient of  $x$  in  $-x = -1$

iii) Coefficient of  $x$  in  $-3x = -3$

iv) Coefficient of  $x$  in  $-5ax = -5a$

v) Coefficient of  $x$  in  $\frac{3}{2}xy = \frac{3}{2}y$

vi) Coefficient of  $x$  in  $ax = a$