

Exercise 18(A)

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

i) $3x + 8 = 15$

Sol - The sum of three times x and 8 is equal to 15.

ii) $7 - y > x$

Sol - 7 decreased by y is greater than x .

iii) $2y - x < 12$

Sol - $2y$ decreased by x is less than 12.

iv) $5 \div z = 5$

Sol - 5 divided by z is equal to 5.

v) $a + 2b > 18$

Sol - a increased by $2b$ is greater than 18.

vi) $2x - 3y = 16$

Sol - $2x$ decreased by $3y$ is equal to 16.

vii) $3a - 4b > 14$

Sol - $3a$ decreased by $4b$ is greater than 14.

viii) $b + 7a < 21$

Sol - b increased by $7a$ is less than 21.

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

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

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

Sol - The sum of $3x$ and 12 is decreased by y is less than $3a$.

Exercise 18 (B)

3. State whether true or false:

i) 16 is a constant and y is a variable but $16y$ is a variable.

Sol- The given statement is true.

ii) $5x$ has two terms 5 and x .

Sol- The given statement is false.

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

Sol- The given statement is true.

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

Sol- The given statement is false.

v) $ax^2 + bx + c$ is a trinomial.

Sol- The given statement is true.

vi) $8xab$ is a binomial.

Sol- The given statement is true.

vii) $8 + ab$ is binomial.

Sol- The given statement is true.

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

Sol- The given statement is true.

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

Sol- The given statement is true.

x) The coefficient of x in $5x$ is $5x$.

Sol- The given statement is false.

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

Sol- The given statement is false.

xii) The coefficient of ab in $-ab$ is -1 .

Sol- The given statement is true.

5. State whether true or false:

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

Sol- The given statement is true.

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

Sol- The given statement is false.

iii) a and $-a$ are like terms.

Sol- The given statement is true.

iv) $-ba$ and $2ab$ are unlike terms.

Sol- The given statement is false.

v) $5a$ and $5x$ are like terms.

Sol- The given statement is false.

vi) $3xy$ and $4xyz$ are unlike terms.

Sol- The given statement is true.

7. Write down the coefficient of x in the following monomials.

i) x

Sol- The coefficient of x is 1.

ii) $-x$

Sol- The coefficient of $-x$ is -1 .

iii) $-3x$

Sol- The coefficient of $-3x$ is 3 .

iv) $-5ax$

Sol- The coefficient of x is $-5a$.

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

Sol- The coefficient of x is $\frac{3}{2}y$.

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

Sol- The coefficient of x is $\frac{a}{y}$.