

HomeworkExercise - 18 (A)

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

(i) $3x + 8 = 15$

(ii) $7 - y > x$

(iii) $2y - x < 12$

(iv) $5 \div 2 = 5$

(v) $a + 2b > 18$

(vi) $2x - 3y = 16$

(vii) $3a - 4b > 14$

(viii) $b + 7a < 21$

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

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

Solution:(i) $3x$ plus 8 is equal to 15.(ii) 7 decreased by y is greater than x .(iii) $2y$ decreased by x is less than 12.

(iv) 5 divided by 2 is equal to 5.

(v) a increased by $2b$ is greater than 18.(vi) $2x$ decreased by $3y$ is equal to 16.(vii) $3a$ decreased by $4b$ is greater than 14.(viii) b increased by $7a$ is less than 21.(ix) * 16 and $2a$ decreased by x is greater than 25.(x) The sum of $3x$ and 12 decreased by y is less than $3a$.

Exercise - 18 (B)

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) $8xab$ 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 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 $-yz$ are like terms. (True)
- (ii) xy and $-yz$ 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) $2x$
- (ii) $-x$
- (iii) $-3x$
- (iv) $-5ax$
- (v) $3/2xy$
- (vi) ax/y

Solution:

- (i) 1
- (ii) -1
- (iii) -3
- (iv) $-5a$
- (v) $3/2ay$
- (vi) a/y