

H.W  
3/10/21

Ex-18(A)

(a) 81 - x

Date \_\_\_\_\_  
Page \_\_\_\_\_

2. For each of the following Algebraic Expressions write

a suitable statement in words. (i) to (x)

(i)  $3x + 8 = 15$

just 1 line

Ans - The sum of  $3x$  and 8 is equal to 15. (ii)

just 1 line  $3x + 8$  is equal to  $x + 2$ . (iii)

(ii)  $7 - y > x$ : (iv) less than  $x + 8$  (v)

Ans - 7 is decreased by  $y$  is greater than  $x + 8$ . (vi)

just 1 line  $7 - y$  is greater than  $x + 8$ . (vii)

(viii)  $2y - x < 12$

(viii)

Ans -  $2y$  is decreased by  $x$  is smaller than 12. (ix)

just 1 line  $2y - x$  is less than 12. (x)

(iv)  $5 \div z = 5$ : (v)  $x^2$  is  $x$  times its factor. (vi)

(xi)

Ans - 5 divided by  $z$  is equal to 5. (vii)

just 1 line  $x^2$  is  $x$  times its factor. (viii)

(v)  $a + 2b > 18$

-27

Ans -  $a$  increased by  $2b$  is greater than 18. (ix)

just 1 line  $a + 2b$  is greater than 18. (x)

(vi)  $2x - 3y = 16$ : (vii)  $x^2 - 6x$  (viii)

Ans -  $2x$  decreased by  $3y$  is equal to 16. (ix)

just 1 line  $2x - 3y$  is equal to 16. (x)

(viii)  $3a - 4b > 14$ : (ix)  $x^2 - 2x$  (x)

Ans -  $3a$  is decreased by  $4b$  is greater than 14. (xi)

(xi)  $b + 7a < 21$ : (xii)  $x^2 - 2x$  (xiii)

Ans -  $b$  increased by  $7a$  is less than 21. (xii)

just 1 line  $b + 7a$  is less than 21. (xiii)

(x)  $(1b + 2a) - x > 25$ : (xii)  $x^2 - 2x$  (xiii)

Ans - The sum of  $1b$  and  $2a$  decreased by  $x$  is greater than 25.

just 1 line  $(1b + 2a) - x$  is greater than 25. (xiii)

(x)  $(3x + 12) - y < 3a$ : (xii)  $x^2 - 2x$  (xiii)

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

just 1 line  $(3x + 12) - y$  is less than  $3a$ . (xiii)

### Ex- 18(B)

Q3 - State whether true or false:

- 16 is a constant and  $x$  is a variable, but  $16y$  is a variable. True
- $5x$  has two terms 5 and  $x$ . False
- The expression  $5+x$  has two terms 5 and  $x$ . True
- The expression  $2x^2+x$  is a trinomial. False
- $ax^2+bx+c$  is a trinomial. True
- $8xab$  is a binomial. False
- $8+ab$  is a binomial. True
- $x^3-5xy+6x+7$  is a polynomial. True
- $x^3-5xy+6x+7$  is a multinomial. True
- The co-efficient of  $x$  in  $5x$  is  $5x$ . False
- The co-efficient of  $ab$  in  $-ab$  is  $-1$ . True
- The co-efficient of  $y$  in  $-3xy$  is  $-3$ . False

Q5 - State whether true or false:

- $xy$  and  $-yx$  are like terms. True
- $x^2y$  and  $-y^2x$  are like terms. False
- $a$  and  $-a$  are like terms. True
- $-ba$  and  $2ab$  are unlike terms. False
- 5 and  $5x$  are like terms. False
- $3xy$  and  $4xy^2$  are unlike terms. True

Q7 - Write down the co-efficient of  $x$  in the following monomials:

(i)  $x$

Ans - 1

(ii)  $-x$

Ans - -1

(iii)  $-3x$

Ans - -3

(iv)  $-5ax$

Ans -  $-5a$

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

Ans -  $\frac{3}{2}y$   $\therefore$   $= \frac{3}{2}(1+x)$

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