

S state true or false.

i) If  $A = \{0\}$ ; then  $|A| = 0$  False

ii)  $|A| = 1$  False

iii) If  $T = \{a, l, a, h, b, d, h\}$ ; then  $|T| = 5$  True

iv) If  $B = \{1, 5, 5, 1, 5, 5, 1\}$ ; then  $|B| = 6$  False

HW  
1-10-21 Ex-18(A)

2ii)  $3x + 8 = 15$  ( ~~$3x = 0$~~  The sum of  $3x$  and  $8$  is  $15$ )

ci)  $7 - y > 2$  ( $y$  subtracted from  $7$  gives  $9$  more than  $2$ )

ci)  $2y - x < 12$  ( $2y$  decreased by  $x$  is smaller than  $12$ )

ii)  $5 \div z = 5$  ( $5$  divided by  $z$  is equal to  $5$ .)

v)  $a + 2b > 18$  (The sum of  $a$  and  $2b$  is greater than  $18$ )

vii)  $2x - 3y = 16$  ( $2x$  decreased by  $3$  is  $16$ .)

vii)  $3a - 4b > 14$  ( $3a$  decreased by  $4b$  is ~~16~~ greater than  $14$ )

viii)  $b + 7a < 21$  (The sum of  $b$  and  $7a$  is smaller than  $21$ )

ix)  $(16 + 2a) - x > 25$  ( ~~$16$~~   $x$  subtracted from the sum of  $16$  and  $2a$  is greater than  $25$ )

2)  $(3n \times 12) - y < 3n$  (The sum of  $3n$  and  $12$  decreased by  $y$  is smaller than  $3n$ )

### Ex - 18 (B)

3. State true or false

i) 16 is a constant and yet a variable, but 16y is variable. False/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 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  $4xy^2$  are unlike terms. True

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

i)  $x$

1

ii)  $-2x$

-1

iii)  $-3x$

-3

iv)  $-5ax$

$-5a$

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

$\frac{3}{2}y$

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

$\frac{a}{y}$