

i) $6xy = y$

ii) $6xy = x + 5y$

iii) $2xy = y$

iv) $x + y < 2y$

v) $15xz = 3yz$

vi) $8xy = 2x$

vii) $30 = b = y$

viii) $3x + z = y$ $z - 3x = y$

ix) $x + 12 < 5z$ $x + 12 = 5z$

x) $x + 12 > 5z$

xi) $x + 12 < 5z$

xii) $45 - 3z = y$

xiii) $8x + y = 2z$

xiv) $8z - 5x - 7y = 8z$

xv) $7y - 5x = 8z$

2. i) Sum of $3x$ and 8 is 5
- i) 7 decreased by y is greater than x .
 - ii) x subtracted from $2y$ is less than 12 .
 - iii) 5 divided by z is equal to 5 .
 - iv) Sum of a and $2b$ is greater than 18 .
 - v) ~~43~~ subtracted from x is equal to 16 .
 - vi) $3a$ decreased by $4b$ is greater than 14 .
 - vii) b increased by $7a$ is less than 21 .
 - ix) The sum of b and $2a$ decreased by x is greater than 25 .
 - x) The sum of $3x$ and 12 is decreased by y is less than $3a$

Exercise 18CB

1. Constants = $6, \frac{5}{y}, 0$

Variable = $y, 3x, \frac{1}{5}xy, 2z, 7p, \frac{9x}{4}, \frac{3}{4x}$

$$\frac{x^2}{3y}$$

2. i) $(4x - 3y - x \frac{2}{3}x + \frac{1}{5}y \text{ and } y)$

Ans $(x, -x, \sqrt{3}x), \sqrt{5}y$ like terms
 $(-3y, \frac{1}{5}y, 1000y)$ - like terms

Q.11) $(2xy, -4x, yx), (2yz, \frac{3}{2}yz, \frac{3}{2}yz)$
 iii) $(-a^2, -7ba, 2ab^2), (3ab^2a^2, -3ab^2)$

39.1) i) T ii) T iii) T iv) T v) T vi) T vii) T viii) T

1) i) F ii) F iii) F iv) T v) F vi) F vii) F viii) F

4. i) 2 ii) 2 iii) 2 iv) 3 v) 2 vi) 2 vii) 2 viii) 3

ii) 2 iii) 2 iv) 1 v) 3

5. i) T ii) T iii) T iv) F

ii) F iii) F iv) T

6. i) monomial ii) binomial iii) trinomial

iv) monomial v) binomial vi) binomial

vii) binomial viii) ~~trinary~~ binomial ix) trinomial

7. i) coefficient of x in following terms ii) 1 iii) 3 iv) -5 v) 3 vi) $\frac{9}{4}$

8. Coefficients of the following are:

i) $-3y^2$ ii) $-a$ iii) -1

- iv) $\frac{2}{a}$ v) $-2z$ vi) $-y^2$
- vii) $-3a$ viii) $5a$

9. Numerical coefficients of the following monomials are:

- i) 5 ii) 1 iii) 5 iv) -2
- v) $\frac{2}{3}$ vi) -15 vii) -7 viii) $\frac{3}{2}$

10. Degree of the following polynomials is:

- i) 2 ii) 2 iii) 10 iv) 20
- v) 3 vi) 7 vii) 6 viii) 9

[Faded handwritten notes and scribbles, possibly including algebraic expressions like $(a+b)^2 = a^2 + 2ab + b^2$]