MATHEMATICS

Class-7th

Chapter-12

Algebraic expressions

Exercise-12.1

Part-2

-By:- A.K.Jha

Ex - 12.1   `12.1`

Q.4. **Sol.**

Expression	Terms which contain x	Coefficient of x
(i) $y^2x + y$	y^2x	y^2
(ii) $13y^2 - 8yx$	$-8yx$	$-8y$
(iii) $x + y + 2$	x	1
(iv) $5 + z + zx$	zx	z
(v) $1 + x + xy$	x, xy	$1, y$
(vi) $12xy^2 + 25$	$12xy^2$	$12y^2$
(vii) $7x + xy^2$	$7x, xy^2$	$7, y^2$

Q.5. **Sol.**

(i) Monomials: y^2 , 100 , $7mn$.

(ii) Binomials: $4y - 7z$, $5 - 3t$; $4p^2q - 4pq^2$.

(iii) Trinomials: $x + y - xy$, $ab - a - b$.

Q.6. **Sol.**

Like terms: $(1, 100)$, $(-7x, \frac{5}{2}x)$, $(14xy, 42yx)$.

Unlike terms: $(-29x, -29y)$, $(4m^2p, 4mp^2)$, $(12xz, 12x^2z^2)$ etc.
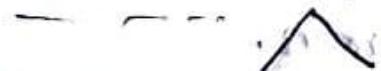
Q.7. Sol.

Like terms are :-

(a) $(-xy^2, 2xy^2)$, $(-4yx^2, 20x^2y)$, $(8x^2, -11x^2$

$-6x^2)$, $(7Y, y)$, $(-100x, 3x)$, $(-11yx, 2xy$

(b) $(10pq, -7qp)$, $(7p, 2405p)$, $(8q, -10$

$(-p^2q^2, 12q^2p^2)$, $(-23, 4L)$ ✗

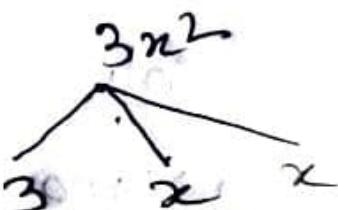✗ some examples of Expression, Terms & fa

Expression $\longrightarrow$ $8y + 3x^2$

Terms $\to 8y$

factors $\to 8 \quad y$

$3x^2$

$3 \quad x \quad x$

Expression $\longrightarrow$ $7mn - 4$

Terms $\longrightarrow$ $7mn$ $\qquad -4$

factors $\to 7 \quad m \quad n$ $\qquad -4$

✗ The end - By: A.k.Jha