

An English Medium Co-Educational Secondary School Affiliated to Central Board of Secondary Education, New Delhi (No. 2030015)

Managed by BABA GARIA MISSION (RN 3835/2001) and under overall supervision of

JAMATIA HODA (Apex Body of the Community) A PLACE TO LEARN, TO PLAY & TO GROW IN A NATURAL BEAUTY

Exercise - 8B

P-132

Write the coefficient of

(i) x in 13x

= The coefficient of x in 13x is 13.

(11) y in - 54

= The coefficient of y in -5y is -5

(iii) a in bab

= The coefficient of a in bab is 6b

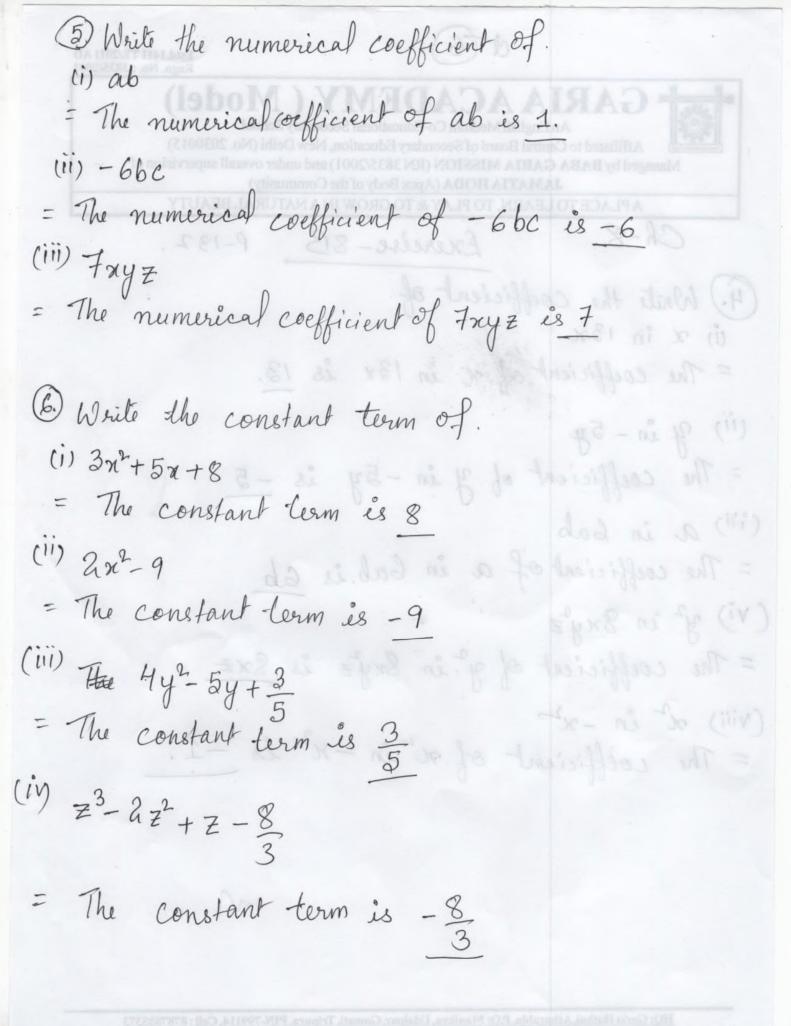
(Vi) g² in 8xy²z

= The coefficient of your 8xyz is 8xz

(Viii) x in -x2

= The coefficient of n'in -n' is

W



(7.) Identify the monomials, binomials and trinomials in the following: (i) - 2ny z = Monomial (11) 5+7x3y3Z3 = Binomial (iii) - 5,23 = Monomial (iv) a+b-2c = Trinomial (ii) 3x Ary (v) xy+yz-zx = Trinomial = Monomial (vii) ax3+ bx2+cx+d = According to question (None) (Viii) -14 = Monomial (ix) 2x+1 = Binomial. (8) Wente all-the terms of the algebraic expressions. (i) $4x^5 - 6y^4 + 7x^2y - 9$ Terms: - $4x^5, -6y^4, 7x^2y, -9$.

(ii) $9x^3 - 5z^4 + 7x^3y - xyz$ Terms: $9x^3, -5z^4, 7x^3y, -xyz$



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9. Identify the like terms in the following.
(i) a2, 62, -2a2, c2, 4a

= Like terms: - a2, - 2a2

(ii) 3x, 4xy, -4z, \$ zy

= Like terms: - - yz, = zy

(iii) - 22y2, x2y, 5y2x, x2z

= Like terms: - - 2xy2, 5y2x.

(iv) abc, abe, acb, cab, bac, abe, cab

= Like terms:

abe, acb, bae, cab?

EKX-82++25-870 (11)

Enercise 80

P- 134.

1. Add:

(i) 3x, 7x.

=3x+7x

= 10x

Ane : 10 x

(111) 2xy, 5xy, -xy

= 2xy + 5xy + (-xy)

= Fry-ry

= 6 xy.

Ans: 6xy

(ii) fy , -9y

= 7y + (-9y)

= 7y - 9y= -2y. Ans: -2y

(111) Sug-344 + A

(iv) 3x, 2y

=3x+2y.

Ane: 3x+2y

(VI) 7xyz, -5xyz, 9xyz, -8xyz

= Fxyz+(-5xyz)+9xyz+(-8xyz)

= 7xyz-5xyz+9xyz-8xyz

2 Fryz + 9xyz - 5xyz - 8xyz

2 16xyz-13xyz

= 3xyz Ans: 3xyz

(Vii) 6a3, - 4a3, 10a3, -8a3

 $= 6a^3 + (-4a^3) + 10a^3 + (-8a^3)$

 $= 6a^3 - 4a^3 + 10a^3 - 8a^3$

 $= 6a^3 + 10a^3 - 4a^3 - 8a^3$

 $= 16a^3 - 12a^3$

 $=4a^3$

Ans: - 4 a3



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THE DIED TO DELTE I, TO THE TENT		
(2) Add the following:	-34 -24 +5	×
(i) x-3y-27	-54 6	×
5x +7y - Z	+74 - F	
-7x-2y+4z	+24 - 2	ک
-x+2y+Z	-2z -z	-3z
	-3 2	+42
Ans: - x + 2y + Z	-6 -13	+2
	- 7 +5	
$\frac{-(ii)}{-2m^2+6m-6}$	-13 -8	AMA
$-2m^{2} + 6m^{2} - 2m - 7$	-4m	$\sim -2m^2$
()	-2m	- m2
$-2m^2$	-6m	$-3m^2$
(54×8-)+5	+ 6m	$-3m^2$
A. 1 2m2 8	Eurot euro-	$\frac{+m^2}{-2m^2}$
Ans: - 2m2-8	alm Inter	-2111-
	The state of the s	

			0 -
(111)	222-3	my + 4	0
-7	22-5	ny + y	t -
Н	72+7	ry - 61	42
		7	42
-7	22-7	my - 1	1
-		O	

$$+2n^{2}$$
 $+4n^{2}$
 $-5ny$
 $-8ny$
 $-7n^{2}$
 $-7n^{2}$
 $-8y^{2}$
 $-8y^{2}$
 $-7y^{2}$
 $-7y^{2}$

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3. Add

(1)
$$\chi^3 + y^3 - z^3 + 3\chi yz$$
, $-\chi^3 + y^3 + z^3 - 6\chi yz$, $\chi^3 - y^3 - z^3 - 8\chi yz$

$$(vi)$$
 $2+x-x^2+6x^3, -6-2x+4x^2-3x^3, 2+x^2, 3-x^3+4x-2x^2$

$$\begin{array}{r}
 2 + 2 - 2 + 6 \times^{3} \\
 -6 - 2 \times + 4 \times^{2} - 3 \times^{3} \\
 +2 + 2 + 2 \\
 +3 + 4 \times - 2 \times^{2} - 2 \\
\end{array}$$



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$$3ns: -3x$$

$$3ns: -3x$$

$$= 6xy - (-xy)$$

$$= 6xy + xy [(-)x(-)=+]$$

$$= 7xy$$

$$4ns: 7xy$$

(V)
$$10\pi^{2}$$
 from $-7\pi^{2}$

$$= -7\pi^{2} - 10\pi^{2}$$

$$= -17\pi^{2}$$

$$Que + -17\pi^{2}$$

(vi)
$$a^2 - b^2$$
 from $b^2 - a^2$
= $(b^2 - a^2) - (a^2 - b^2)$
= $b^2 - a^2 - a^2 + b^2$
= $b^2 + b^2 - a^2 - a^2$
= $2b^2 - 2a^2$
Ohs: $2b^2 - 2a^2$.

(5) Subtract:

(1) 5a + 76-2c from 3a-7b+4c

= (3a-7b+4c)-(5a+7b-2c)

= 3a-7b+4-5a-7b+2c

= 3a - 5a - 7b - 7b + 2c + 4c

=-2a + -14b + 2c + 4c =-2a - 14b + 6c(ii) a-2b-3c from -2a+5b-4c

= (-2a+5b-4c)-(a-2b-3c)

2-2a+5b-4c-a+2b+3c

-2a + 5b - 4c -a + 2b + 3c -3a + 7b - c

(iv) 6x3-7x2+5x-3 from 4-5x+6x2-8x3

 $= (4 - 5x + 6x^2 - 8x^3) - (6x^3 - 7x^2 + 5x - 3)$

 $= A - 5x + 6x^{2} - 8x^{3} - 6x^{3} + 7x^{2} - 5x + 3$

= A+3-5x-5x+6x+7x2-8x3-6x3

= 7-10x + 13x2 14x3

= -10n + 13n - 14x3+7

Ms: + 10x + 13x2-14x3+7



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(6) Simplify:

(i)
$$2p^3 - 3p^2 + 4p - 5 - 6p^3 + 2p^2 - 8p - 2 + 6p + 8$$
.
 $= 2p^3 - 6p^3 - 3p^2 + 2p^2 + 4p - 8p + 6p - 5 + 8 - 2$

$$=-4p^3-p^2+2p+1$$

(ii)
$$2n^2 - ny + 6x - 4y + 5ny - 4x + 6n^2 + 3y$$

 $= 2n^2 + 6n^2 - ny + 5ny + 6x - 4x - 4y + 3y$

(iii)
$$\chi^4 - 6\chi^3 + 2\chi - 7 + 7\chi^3 - \chi + 5\chi^2 + 2 - \chi^4$$

 $= \chi^4 - \chi^4 - 6\chi^3 + 7\chi^3 + 2\chi - \chi - 7 + 2 - \chi^4$
 $= \chi^3 + \chi - 5 - \chi^4$

+ 1331 - 14-1

Exercise &D

Simplify

$$= a - b + 2a$$

$$= 3a - 6$$

$$=4x-3y+x-27$$

(3.)
$$(a^2+b^2+2ab)-(a^2+b^2-2ab)$$

$$= a^2 + b^2 + 2ab - a^2 - b^2 + 2ab$$

$$(4)$$
 - 3(a+b)+4(2a-3b)-(2a-b)

$$= -3a - 3b + 8a - 12b - 2a + b$$

$$= -3a + 8a - 2a - 3b - 12b + b$$

$$(5)$$
 - $4x^2 + \{(2x^2 - 3) - (4 - 3x^2)\}$

$$= -4n^2 + 2n^2 + 3n^2 - 7$$

3a+8a-2a-3b-12b+b



GARIA ACADEMY (Model)

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$$= a - [2b - \{3a - 2b + 3c3]$$

$$= a - [2b - 3\alpha + 2b - 3c]$$

$$= a - 2b + 3a - 2b + 3c$$

$$= -x + [5y - \{x - 5y + 2x\}]$$

(9.) 86-[15x-7(6x-9)-2.210x-5(2-3x)] = 86-[15x-7(6x-9)-2{10x-10+15x}] $= 86 - \left[15x - 42x + 63 - 20x + 20 - 30x\right]$ = 86 - [15x - 43x - 20x - 30x + 63 + 20]286-[-77x+83] -92x = 86+77x-83 +154 3x-RE+X8+X2-2B ニチチメ 2 86-83 ≠77x 2 3+77x. (10) 12x - [3x3+5x2-{7x2-(4-3x-x3)+6x3}-3x]

 $= 12x - \left[3x^3 + 5x^2 - \left\{7x^2 - 4 + 3x + x^3 + 6x^3\right\} - 3x\right]$ $= 12\pi - \left[3x^3 + 5x^2 - 7x^2 + 4 - 3x - x^3 - 6x^3 - 3x\right]$ = 12n- 3x3-6x3-x3+5x2-7x2+4-3x-3x] = 12x - [-4x3-2x2+4-6x] $= 12x + 4x^3 + 2x^2 - 4 + 6x$ + 323 = 12x+6x+2x+4x3-4

= 18x +2x2+4x3-4

- 7n t Sn2

-2n2



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(3)
$$xy - [yz - zx - \{yx - (3y - xz) - (ny - zy)\}]$$

= $ny - [yz - zx - \{yx - 3y + xz - ny + zy\}]$

= $ny - [yz - zx - yx + 3y - xz + ny - zy]$

= $ny - yz + zx + yx - 3y + nz - ny + zy$

= $ny + yn - ny - yz + zy + zx + nz - 3y$

= $ny + 2nz - 3y$

+ ny + ny + 2ny - yz + yz