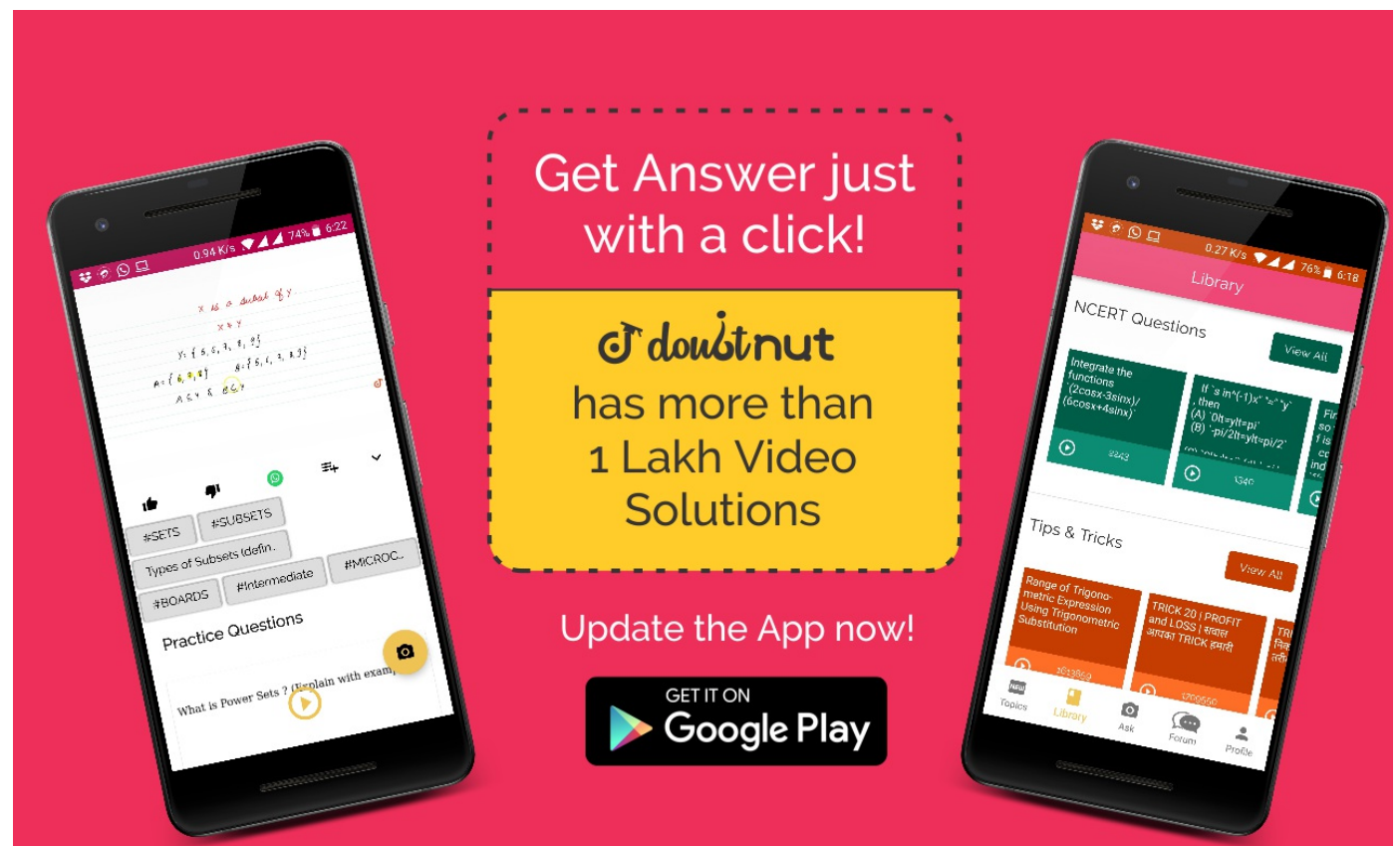


Ques No.	Question
1	<p>NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.1 - Q 1</p> <p>Get the algebraic expressions in the following cases using variables, constants and arithmetic operations. (i) Subtraction of z from y. (ii) One-half of the sum of numbers x and y. (iii) The number z multiplied by itself. (iv) One-fourth of the product of numbers p and q. (v) Numbers x and y both squared and added. (vi) Number 5 added to three times the product of numbers m and n. (vii) Product of numbers y and z subtracted from 10. (viii) Sum of numbers a and b subtracted from their product.</p> <p>▶ Watch Free Video Solution on Doubtnut</p>
2	<p>NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.1 - Q 2</p> <p>Identify the terms and their factors in the following expressions Show the terms and factors by tree diagrams. (a) $x - 3$ (b) $1 + x + x^2$ (c) $y - y^3$ (d) $5xy^2 + 7x^2y$</p> <p>▶ Watch Free Video Solution on Doubtnut</p>
3	<p>NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.1 - Q 3</p> <p>Identify the numerical coefficients of terms (other than constants) in the following expressions : (i) $5 - 3t^2$ (ii) $1 + t + t^2 + t^3$ (iii) $x + 2xy + 3y$ (iv) $100m + 100n$</p> <p>▶ Watch Free Video Solution on Doubtnut</p>
4	<p>NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.1 - Q 4</p> <p>Identify terms which contain x and give the coefficient of x. (i) $y^2x + y$ (ii) $13y^2 - 8yx$ (iii) $x + y + 2$ (iv) $5 + z + zx$</p> <p>▶ Watch Free Video Solution on Doubtnut</p>
5	<p>NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.1 - Q 5</p> <p>Classify into monomials, binomials and trinomials. (i) $4y - 7z$ (ii) y^2 (iii) $x + y - xy$ (iv) 100</p> <p>▶ Watch Free Video Solution on Doubtnut</p>



6

NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.1 - Q 6

State whether a given pair of terms is of like or unlike terms. (i) 1100 (ii) $-7x, \frac{5}{2}x$
(iii) $-29x, 29y$ (iv) $14xy, 42yx$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.1 - Q 7

Identify like terms in the following : (a)

$-xy^2, -4yx^2, 8x^2,$

$2xy^2, 7y, -11x^2,$

$-100x, -11yx,$

$20x^2y, -6x^2, y,$

$2xy, 3x$

(b)

$10pq, 7p, 8q,$

$-p^2q^2, -7qp,$

$-100q, -23,$

$12q^2p^2, -5p^2, 41,$

$2405p, 78qp, 13p^2q,$

$qp^2, 701p^1$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.2 - Q 2

8

Add : (i)
 $3mn - 5mn, 8mn$
 $- 4mn$
(ii)
 $t - 8tz, 3tz - z, z$
 $- t$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.2 - Q 3

Subtract : (i) $-5y^2$ from y^2 (ii) $6xy$ from (iii) $(a - b)$ from $(a + b)$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.2 - Q 4

What should be added to $x^2 + xy + y^2$ to obtain $2x^2 + 3xy$?

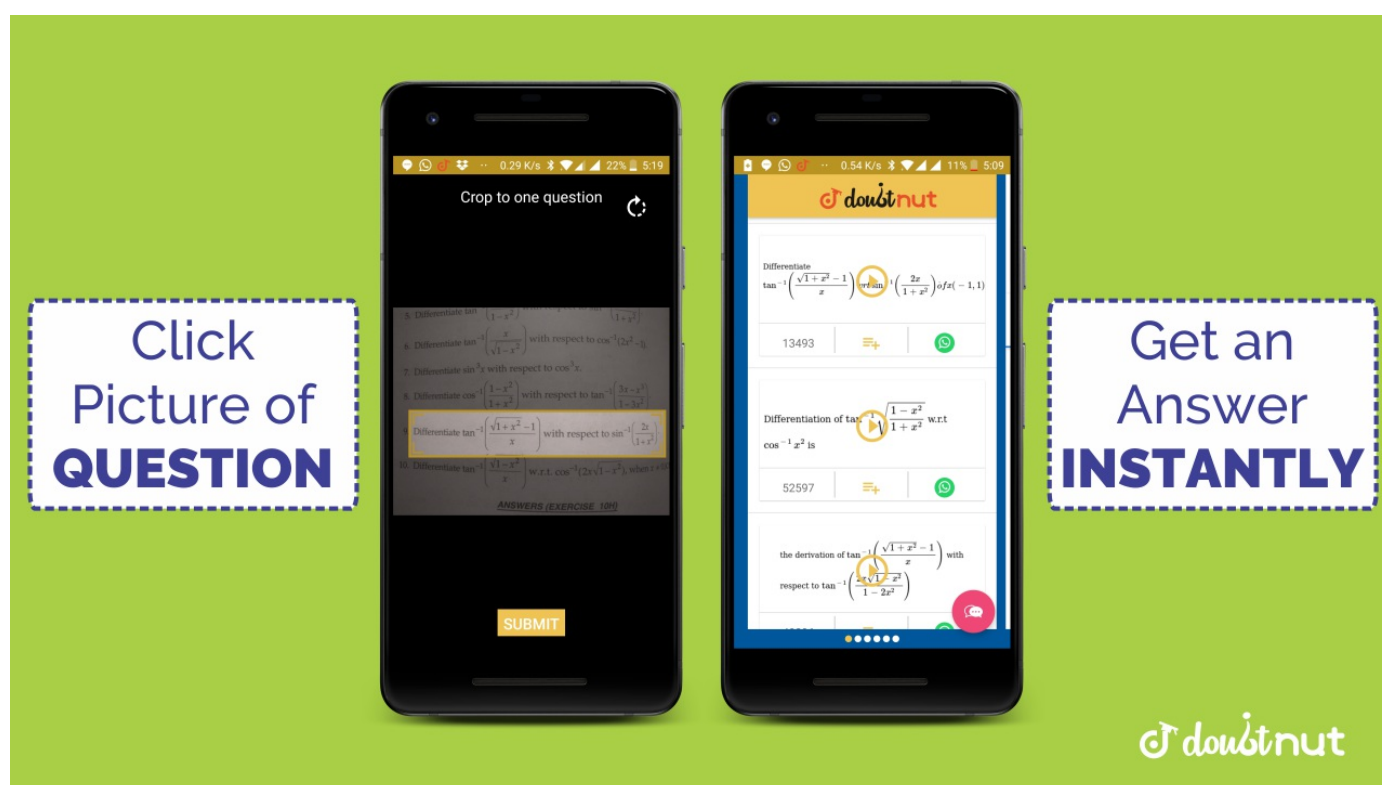
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11

NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.2 - Q 5

What should be taken away from
 $3x^2 - 4y^2 + 5xy$
 $+ 20$
to obtain
 $-x^2 - y^2 + 6xy$
 $+ 20$
?

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12

NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.2 - Q 6

From the sum of
 $3x - y + 11$ and
 $-y - 11$
 subtract $3x - y - 11$.

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.3 - Q 1

If $m = 2$ find the value of : (i) $m - 2$ (ii) $3m - 5$ (iii) $9 - 5m$ (iv) $3m^2 - 2m - 7$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.3 - Q 2

If $p = -2$, find the value of : (i) $4p + 7$ (ii) $-3p^2 + 4p + 7$ (iii)
 $-2p^3 - 3p^2 + 4p + 7$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.3 - Q 3

Find the value of the following expressions, when $x = -1$ (i) $2x - 7$ (ii) $-x + 2$
 (iii) $x^2 + 2x + 1$ (iv) $2x^2 - x - 2$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.3 - Q 4

If
 $a = 2$ and $b =$
 -2 ,
 find the value of :

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.3 - Q 5

When $a = 0$ and $b = -1$ find the value of the given expressions :



18

NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.3 - Q 6

Simplify the expressions and find the value if x is equal to 2 (i) $x + 7 + 4(x - 5)$ (ii) $3(x + 2) + 5x - 7$ (iii) $6x + 5(x_2)$ (iv) $4(2x - 1) + 3x + 11$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.3 - Q 7

Simplify these expressions and find their values if $x = 3, a = 1$ and b

$= -2$
(i) $3x - 5 - x + 9$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.3 - Q 8

If $z = 10$ find the value of $z^3 - 3(z - 10)$. (ii) If $p = -10$, find the value of $p^2 - 2p - 100$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.3 - Q 9

What should be the value of a if the value of $2x^2 + x - a$ equals to 5, when $x = 0$?

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - EXERCISE 12.3 -

22

Q 10

Simplify the expression and find its value when $a = 5$ and $b = -3$ then $2(a^2 + ab) + 3 - ab$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - SOLVED EXAMPLES - Q 1

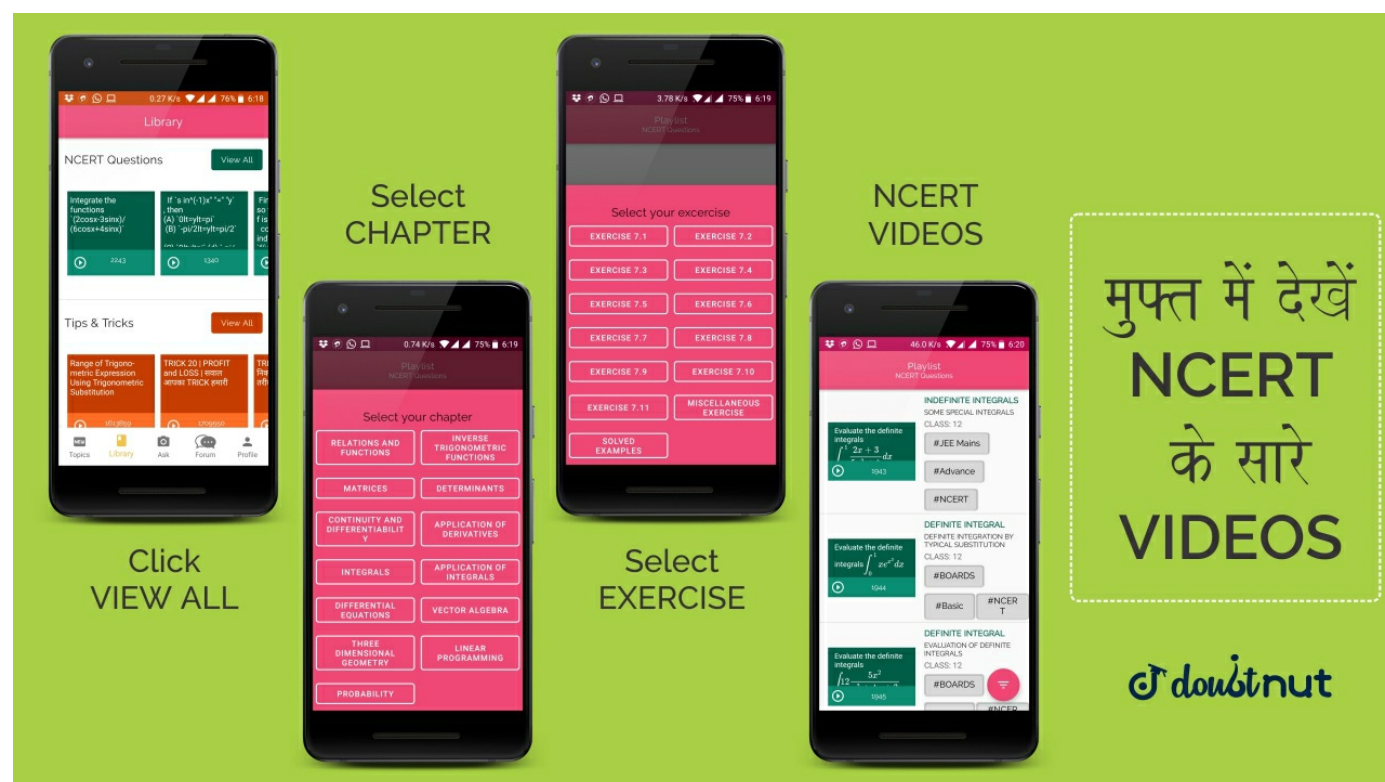
Identify, in the following expressions, terms which are not constants. Give their numerical coefficients:

$$xy + 4, 13 - y^2, 13$$

$$-y + 5y^2, 4p^2q$$

$$-3pq^2 + 5$$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - SOLVED EXAMPLES - Q 2

What are the coefficients of x in the following expressions ?

$$4x - 3y, 8 - x + y,$$

$$y^2x - y, 2z - 5xz$$

(b) what are the coefficients of y in the following expressions ?

$$4x - 3y, 8 - yz, yz^2$$

$$+ 5, my + m$$

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25

NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - SOLVED EXAMPLES - Q 3

State with reasons, which of the following pairs of terms are of like terms and which are of unlike terms : (i) $7x, 12y$ (ii) $15x - 21x$ (iii) $4ab, 7ba$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - SOLVED EXAMPLES - Q 4

Collect like terms and simplify the expression :

$$12m^2 - 9m + 5m \\ - 4m^2 - 7m + 10$$

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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - SOLVED EXAMPLES - Q 5Subtract $24ab - 10b - 18a$ from $30ab - 12b + 14a$.[▶ Watch Free Video Solution on Doubtnut](#)

28

NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - SOLVED EXAMPLES - Q 6

From the sum of
 $2y^2 + 3yz, -y^2$
 $- yz - z^2$ and yz
 $+ 2z^2$,
subtract the sum of
 $3y^2 - z^2$ and $-y^2$
 $+ yz + z^2$

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29

NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - SOLVED EXAMPLES - Q 7Find the values of the following expressions for $x = 2$. (i) $x + 4$ (ii) $4x - 3$ (iii) $19 - 5x^2$ (iv) $100 - 10x^3$ [▶ Watch Free Video Solution on Doubtnut](#)



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30 Find the value of the following expressions for $x=2$ i) $x+4$ ii) $4x-3$ iii) $19 - 5x^2$ iv) $100 - 10x^3$

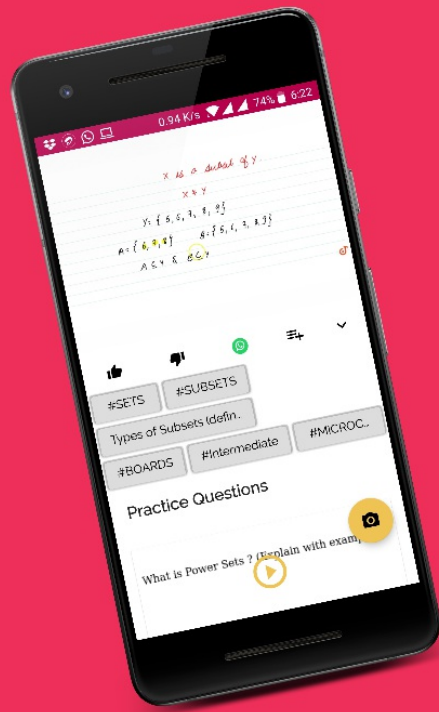
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NCERT - CLASS 7 - CHAPTER 12 ALGEBRAIC EXPRESSIONS - SOLVED EXAMPLES - Q 9

31 Find the value of the following expressions for $a = 3, b = 2$. (i) $a + b$ (ii) $7a - 4b$ (iii) $a^2 + 2ab + b^2$ (iv) $a^3 - b^2$

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