

CLASSIC STUDY ONE OF THE BEST ONLINE STUDY PLAT FORM

Name of Student	Class	Subject	Board	Chapter
	10th	Mathematics	FB	1
Date :	Objective			Teacher Remarks

Section - A

Q. No.1:- Circle the correct option. Each part carries one mark.

I	Cancelling of x on both sides of $5x^2 = 30x$ means the loss of one root i.e.:						
A	$x = 5$	b	$x = 6$	c	$x = 0$	d	None of these
li	In standard quadratic equation $ax^2+bx+c = 0$ if $a = 0$, then it reduces to _____ equation:						
A	Pure quadratic	b	Quadratic	c	Linear	d	Cubic
iii	Factorization is reverse process of :						
A	Addition	b	Subtraction	c	Multiplication	d	Division
Iv	The degree of $ax^2+bx+c = 0$ is:						
A	1	b	2	c	0	d	3
V	The number of methods to solve a quadratic equation is:						
A	1	b	2	c	3	d	4
vi	The solution set of $5x^2-25 = 0$ is:						
A	± 5	b	$\{\pm\sqrt{5}\}$	c	$\{\pm 5\}$	d	$\{5\}$
vii	Standard form of quadratic equation is:						
A	$bx+c = 0$	b	$ax^2+bx+c = 0$	c	$ax^2 = bx$	d	$ax^2 = 0$
viii	The solution set of equation $4x^2-16 = 0$:						
A	$\{\pm 4\}$	b	$\{4\}$	c	$\{\pm 2\}$	d	± 2
Ix	To make $ax^4+bx^2+c = 0$ quadratic in y we put:						
A	$x = y$	b	$x^2 = y$	c	$x^4 = y$	d	$bx^2 = y$
X	If $y = 5^x$ and $y = 1$ then value of x will be:						
A	0	b	1	c	5	d	-1
xi	If $3^x = \frac{1}{3}$ the value of x will be:						
A	1	b	-1	c	0	d	3
xii	The number of terms in standard quadratic equation is:						
A	1	b	2	c	3	d	4
xiii	Two linear factors of $x^2-15x+56$ are:						
A	$(x-7),(x+8)$	b	$(x-7),(x-8)$	c	$(x+7),(x-8)$	d	$(x+7),(x+8)$
xiv	An equation of type $2x^4-3x^3+7x^2-3x+2 = 0$ is called _____ equation:						
A	Reciprocal	b	Radical	c	Exponential	d	None of these
xv	Solution set of $4x^2 = 30x$ is;						
a	$\{0\}$	b	$\{6\}$	c	$\{0,6\}$	d	$\{6,0\}$

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Section - B

Q. No.2:- Attempt only twelve following. All questions carry equal marks.

- 1. Solve by factorization $x^2-11x = 152$.
- 2. Write in standard form $\frac{x+1}{x+2} + \frac{x+2}{x+3} = \frac{25}{12}$.
- 3. Solve by completing square $x^2+17x+\frac{33}{4} = 0$.
- 4. Solve by quadratic formula $\frac{3}{x-1} - \frac{4}{x-5} = 1$.
- 5. Solve $3x^{-2}+5 = 8x^{-1}$.
- 6. Solve $\frac{x}{x-3}+4\left(\frac{x-3}{x}\right) = 4$.
- 7. Solve $\sqrt{x + 3} = x + 1$.
- 8. Define extraneous roots.
- 9. Solve $2^x + 64 \cdot 2^{-x} - 20 = 0$.
- 10. Solve $\left(2x - \frac{1}{2}\right)^2 = \frac{9}{4}$.
- 11. Define radical equation.
- 12. Solve $x^{2/3} + 54 = 15x^{1/3}$.
- 13. Solve $\sqrt{3x + 100} = 4 + x$.
- 14. Solve by formula $\sqrt{3}x^2 + x = 4\sqrt{3}$.
- 15. Solve $3y^2 = y(y-5)$.
- 16. Solve $x^2+2x-2 = 0$.

Section – C

Note: Attempt only three questions. All question carry equal marks.

Q. No.3:- Drive quadratic formula?

Q. No.4:- Solve $\sqrt{x^2 + x + 1} - \sqrt{x^2 + x - 1} = 1$.

Q. No.5:- $\sqrt{x + 5} + \sqrt{x + 21} = \sqrt{x + 60}$.

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Q. No.6:-Solve $x^4 - 2x^3 - 2x^2 + 2x + 1 = 0$.