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## MATHS

## BOOKS - KC SINHA MATHS (HINGLISH)

## QUADRATIC EQUATIONS - FOR BOARDS

Solved Examples

1. Solve the following equation by
fasctorization method: $9 x^{2}+16=0$
2. Solve the equation $x^{2}+2 x+10=0$ factorization method,

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3. Solve the following equation by using the general expressions for roots of as quadratic equation: $x^{2}-5 x+6=0$
4. Solve the following equation by using the general expressions for roots of as quadratic equation: $x^{2}-14 x+58=0$

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5. Solve the following equations by
factorization method: $x^{2}-i x+6=0$

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6. Solve the following equations by
factorization method: $x^{2}+8 i x-16=0$

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7. Solve the following equation by

## factorization

method:

$$
x^{2}(3 \sqrt{2}+2 i) x+6 \sqrt{2} i=0
$$

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8. Solve the equation $2 x^{2}+3 i x+2=0$ using the general expression for a quadratic equation.

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9. 

Solve
the
Equation
$x^{2}+(\sqrt{3}-2 \sqrt{2} i) x-2 \sqrt{6} i=0$ using the
general epression for a quadratic equation.

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1. Solve the equation by factorization method:
$2 x^{2}+3=0$

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2. Solve the equation by factorization method:
$x^{2}+x+1=0$

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3. Solve the equation by factorization method:
$x^{2}+2 x+5=0$

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4. Solve the equation by factorization
method: $x^{2}-4 x+7=0$

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5. Solve the equation by factorization method:
$x^{2}-4 x+13=0$
6. Solve the equation $9 x^{2}-12 x+20=0$ by factorization method only.

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7. Solve the equation by using the general expression for roots of a quadratic equation:
$2 x^{2}-\sqrt{3} x+1=0$

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8. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}-8 x+1=0$

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9. Solve the equation by using the general expression for roots of a quadratic equation:
$5 x^{2}-6 x+2=0$
10. Solve the equation by using the general expression for roots of a quadratic equation:
$3 x^{2}-7 x+5=0$

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11. Solve the equation by using the general expression for roots of a quadratic equation:
$8 x^{2}-9 x+3=0$
12. Solve the equation by using the general expression for roots of a quadratic equation:
$9 x^{2}+4=0$

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13. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}-x+1=0$
14. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}-4 x+7=0$

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15. Solve the equation by using the general expression for roots of a quadratic equation: $27 x^{2}+10 x+1=0$

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16. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}+2 x+2=0$

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17. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}+x+1=0$
18. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}+3 x+9=0$

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19. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}+3=0$
20. Solve the equation by using the general expression for roots of a quadratic equation: $x^{2}+3 x+5=0$

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21. Solve the equation by using the general expression for roots of a quadratic equation:
$27 x^{2}+10 x+1=0$

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22. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}-x+1=0$

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23. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}+2=0$
24. Solve the equation by using the general expression for roots of a quadratic equation:
$21 x^{2}-28 x+10=0$

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25. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}+x+2=0$
26. Solve the equation by using the general expression for roots of a quadratic equation:
$-x^{2}+x-2=0$

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27. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}-2 x+\frac{3}{2}=0$

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28. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}+\frac{x}{\sqrt{2}}+1=0$

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29. Solve the equation by using the general expression for roots of a quadratic equation:
$3 x^{2}-4 x+\frac{20}{3}=0$
30. Solve the equation by using the general expression for roots of a quadratic equation:
$x^{2}+x+\frac{1}{\sqrt{2}}=0$

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31. Solve the equation by using the general expression for roots of a quadratic equation:
$\sqrt{5} x^{2}+x+\sqrt{5}=0$
32. Solve the equation by using the general expression for roots of a quadratic equation:
$\sqrt{3} x^{2}-\sqrt{2} x+3 \sqrt{3}=0$

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33. Solve the following equations by factorization method: $x^{2}-5 i x-6=0$

## D Watch Video Solution

34. Solve the following equations by factorization method: $3 x^{2}+7 i x+6=0$

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35. Solve the following quadratic equation by

## factorization

 method:$x^{2}+(1-2 i) x-2 i=0$

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36. Solve the following quadratic equation by
factorization method:

$$
x^{2}-(2 \sqrt{3}+3 i) x+6 \sqrt{3} i=0
$$

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37. Solve the following equations by using the general expression for a quadratic equation:
$x^{2}+4 i x-4=0$
38. Solve the following quadratic equations by using he general expressions for the roots of a quadratic equation:
$x^{2}-(3 \sqrt{2}-2 i) x-6 \sqrt{2} i=0$
$2 x^{2}+3 i x+2=0$

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39. Solve the following equations by using the general expression for a quadratic equation:
$x^{2}-(5-i) x+(18+i)=0$
40. Solve the following equations by using the general expression for a quadratic equation:
$x^{2}-(7-i) x+(18-i)=0$

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41. Solve the following equations by using the
general expression for a quadratic equation:
$i x^{2}-4 x-4 i=0$
42. Solve the following equations by using the general expression for a quadratic equation: $x^{2}-7 i x-12=0$

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