

Subject: Maths

Class:8

Topic: Ch.7 Factorisation

EXERCISE 7.3

Use Cordova Smart Class Software on the smart board in class to do Exercise.

Resolve the following into factors :

- | | | |
|---|---|---|
| 1. $4x^2 - 12x + 9$ | 2. $25a^2 + 30a + 9$ | 3. $49m^2 + 84mn + 36n^2$ |
| 4. $m^2 - 8mn + 16n^2$ | 5. $4x^2 - 12xy + 9y^2$ | 6. $4x^2 + 20xy + 25y^2$ |
| 7. $a^2 - 2ab + b^2 - c^2$ | 8. $49 - x^2 - y^2 + 2xy$ | 9. $3a^2 + 12a + 12$ |
| 10. $9x^2 - 30x + 25 - 4y^2$ | 11. $a^2 - 9b^2 - 12b - 4$ | 12. $\frac{1}{4} - \frac{1}{4}x^2 - 2xy - 4y^2$ |
| 13. $9 - 12x + 4x^2 - 25y^2 - z^2 - 10yz$ | 14. $4x^2 - \frac{4}{3}x + \frac{1}{9}$ | 15. $9x^2 - 3x + \frac{1}{4}$ |
| 16. $9x^2 + 2 + \frac{1}{9x^2}$ | 17. $3x^2 + 6 + \frac{3}{x^2}$ | 18. $4y^2 - 2y + \frac{1}{4}$ |

EXERCISE 7.4

Use Cordova Smart Class Software on the smart board in class to do Exercise.

Factorise :

- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. $a^2 - 10a + 21$ | 2. $x^2 + 5x + 6$ | 3. $x^2 + 6x - 16$ |
| 4. $x^2 - 4x - 12$ | 5. $a^2 + 19a + 78$ | 6. $x^2 + 13x + 40$ |
| 7. $x^2 + x - 72$ | 8. $x^2 + 11x - 60$ | 9. $x^2 + 30x + 81$ |
| 10. $x^2 + 11x + 28$ | 11. $x^2 - 4x - 21$ | 12. $a^2 + 22a + 105$ |
| 13. $x^2 - 13x - 114$ | 14. $x^2 + 11x - 102$ | 15. $a^2 - 23a + 112$ |

EXERCISE 7.5

Use Cordova Smart Class Software on the smart board in class to do Exercise.

Factorise :

- | | | |
|---------------------------|--------------------------------|----------------------------|
| 1. $2x^2 - x - 3$ | 2. $3x^2 + 5x - 2$ | 3. $3x^2 - 8x - 3$ |
| 4. $-2x^2 + 3x + 9$ | 5. $7x^2 - 24x + 9$ | 6. $-5x^2 + 38x - 21$ |
| 7. $6y^2 - 11y - 2$ | 8. $3x^2 - 13x + 12$ | 9. $8x^2 + 26x + 15$ |
| 10. $3x^2 + 22x + 35$ | 11. $12x^2 + xy - 6y^2$ | 12. $6x^2 + 5xy - 6y^2$ |
| 13. $4x^2 - 13xy + 3y^2$ | 14. $10x^2 + xy - 21y^2$ | 15. $6a^2 - 17ab - 3b^2$ |
| 16. $10a^2 + 17ab + 6b^2$ | 17. $12x^2 - 11xyz - 15y^2z^2$ | 18. $4x^2 + 2x - 12$ |
| 19. $x^2 - xy - 6y^2$ | 20. $-2x^2 - 7x - 3$ | 21. $10x^2 - 23xy + 12y^2$ |

