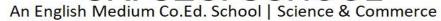


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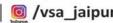
W: www.vsajaipur.com | E: vsajaipur@gmail.com M.: +91 9460356652, 8058999828

Add.: 84, Krishna Vihar, Behind Narayan Niwas, Gopalpura Bypass, Jaipur - 302015









Subject: Maths Topic: Ch.7 Factorisation Class:8

EXERCISE 7.3

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

Resolve the following into factors:

1.
$$4x^2 - 12x + 9$$

4.
$$m^2 - 8mn + 16n^2$$

7.
$$a^2 - 2ab + b^2 - c^2$$

10.
$$9x^2 - 30x + 25 - 4y^2$$

13.
$$9 - 12x + 4x^2 - 25y^2 - z^2 - 10yz$$

16.
$$9x^2 + 2 + \frac{1}{9x^2}$$

2.
$$25a^2 + 30a + 9$$

5.
$$4x^2 - 12xy + 9y^2$$

8.
$$49 - x^2 - y^2 + 2xy$$

11.
$$a^2 - 9b^2 - 12b - 4$$

14.
$$4x^2 - \frac{4}{3}x + \frac{1}{9}$$

17.
$$3x^2 + 6 + \frac{3}{x^2}$$

3.
$$49m^2 + 84mn + 36n^2$$

6.
$$4x^2 + 20xy + 25y^2$$

9.
$$3a^2 + 12a + 12$$

$$12. \quad \frac{1}{4} - \frac{1}{4}x^2 - 2xy - 4y^2$$

15.
$$9x^2 - 3x + \frac{1}{4}$$

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.
$$a^2 - 10a + 21$$

4.
$$x^2 - 4x - 12$$

7.
$$x^2 + x - 72$$

10.
$$x^2 + 11x + 28$$

13.
$$x^2 - 13x - 114$$

2.
$$x^2 + 5x + 6$$

5.
$$a^2 + 19a + 78$$

8.
$$x^2 + 11x - 60$$

11.
$$x^2 - 4x - 21$$

14.
$$x^2 + 11x - 102$$

3.
$$x^2 + 6x - 16$$

6.
$$x^2 + 13x + 40$$

9.
$$x^2 + 30x + 81$$

12.
$$a^2 + 22a + 105$$

15.
$$a^2 - 23a + 112$$

EXERCISE 7.5

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

Factorise:

1.
$$2x^2 - x - 3$$

4.
$$-2x^2 + 3x + 9$$

7.
$$6y^2 - 11y - 2$$

10.
$$3x^2 + 22x + 35$$

13.
$$4x^2 - 13xy + 3y^2$$

16.
$$10a^2 + 17ab + 6b^2$$

19.
$$x^2 - xy - 6y^2$$

2.
$$3x^2 + 5x - 2$$

5.
$$7x^2 - 24x + 9$$

8.
$$3x^2 - 13x + 12$$

11.
$$12x^2 + xy - 6y^2$$

14.
$$10x^2 + xy - 21y^2$$

17.
$$12x^2 - 11xyz - 15y^2z^2$$
 18. $4x^2 + 2x - 12$

20.
$$-2x^2-7x-3$$

3.
$$3x^2 - 8x - 3$$

6.
$$-5x^2 + 38x - 21$$

9.
$$8x^2 + 26x + 15$$

12.
$$6x^2 + 5xy - 6y^2$$

15.
$$6a^2 - 17ab - 3b^2$$

$$18 4r^2 + 2r - 12$$

21.
$$10x^2 - 23xy + 12y^2$$