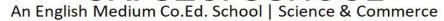


YA SHREE ACAD





W: www.vsajaipur.com | E: vsajaipur@gmail.com M.: +91 9460356652, 8058999828 Add.: 84, Krishna Vihar, Behind Narayan Niwas, Gopalpura Bypass, Jaipur - 302015

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4. $9y^2 + 6y$

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

EXERCISE 7.1

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

Factorise:

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

5.
$$-3x^2 + 3xy - 4xz$$

8.
$$12a^3b^2 + 18ab^4 - 6a^2b^3$$

11.
$$ab^2 + ab + b + 1$$

14.
$$ab(x^2 + y^2) + xy(a^2 + b^2)$$
 15. $a^2 - a(x + 3b) + 3bx$ **16.** $(a - b) + (a - b)^2$

2.
$$10xy^2 - 15x^2y$$
 3. $6xy - 9yz$

6.
$$x^2yz + xy^2z + xyz^2$$

9.
$$8(x-3y)^2+4(x-3y)^2$$

12.
$$x^3 + y^3 + xy (x + y)$$

15.
$$a^2 - a(x + 3b) + 3b$$

17.
$$(x + y) (3a - b) - (2x - 3y) (3a - b)$$

3.
$$6xy - 9yz$$

5.
$$-3x^2 + 3xy - 4xz$$
 6. $x^2yz + xy^2z + xyz^2$ 7. $14a^2 - 28a^2b^2 + 21a^4$

8.
$$12a^3b^2 + 18ab^4 - 6a^2b^3$$
 9. $8(x-3y)^2 + 4(x-3y)$ **10.** $3x(a-3b) - y(a-3b)$

11.
$$ab^2 + ab + b + 1$$
 12. $x^3 + y^3 + xy(x + y)$ 13. $3xy - y^2 + 6xz - 2yz$

16.
$$(a-b) + (a-b)^2$$

18.
$$4a(5a-6b)-12a^2(5a-6b)$$

EXERCISE 7.2

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

Factorise each of the following (1 to 21):

1.
$$9a^2 - 16b^2$$

4.
$$(2x + 3y)^2 - 9z^2$$

7.
$$16(x + y)^2 - 25(x - 3y)^2$$

10.
$$x^{12}y^4 - x^4y^{12}$$

13.
$$(a-b)^2 - (x-y)^2$$

16.
$$\frac{1}{9}x^2y^2 - \frac{1}{16}y^2z^2$$

19.
$$9a^2 - 4b^2 - 3a - 2b$$

2.
$$3x^2 - 12$$

5.
$$9x^2 - \frac{1}{144}$$

8.
$$81 - p^4$$

11.
$$16a^2 - \frac{25}{9a^2}$$

14.
$$x^8 - 1$$

17.
$$125a^2 - 45b^2$$

20.
$$x^2 - 3x + 3y - y^2$$

(i) $(205)^2 - (195)^2$

3.
$$(a + b)^2 - (a - b)^2$$

6.
$$3x^5 - 243x$$

9.
$$x^4 - 16y^4$$

12.
$$(x + 2)^2 - (x + 4)^2$$

15.
$$x^5 - 81x^3$$

18.
$$4-16(a-b)^2$$

21.
$$a(a+c)-b(b+c)$$

(ii)
$$(7.6)^2 - (2.4)^2$$