

Class: Ten

Subject - Social Studies

Unit IV Social Problems

1. Girls Trafficking and its consequences
2. Misuse of technology
3. Bullying a world problem

Subject- Computer

- 1) What is computer software? Explain the types of computer software with their suitable examples.
- 2) What is an operating system? Write the functions of an operating system.
- 3) What is utility software? Give some examples of utility software.
- 4) What is application software? Differentiate between customized software and packaged software.

Subject – Science

1. Write three differences between solar eclipse and lunar eclipse with necessary diagram.
2. Convert 1 light year into meters.
3. Write three conditions for a heavenly body to be a planet.

Subject – Opt. Maths

Prepare formula copy or diary and keep the record of Yesterday's one and Trigonometry formula which you learned in Grade IX.

Subject – Mathematics

Homework: Do the following exercise of 6.3 from Grade 9 Mathematics Book.

EXERCISE 6.3

General section

In each of the following figures write the polynomial as the product of its factors.

a)

b)

c)

d)

e)

f)

Creative section - A

Resolve into factors.

a) $8x^2 + y^2$ b) $1 + 27a^3$ c) $128t^3 - 2t$ d) $x^2y - 64y^4$
 e) $a^2 + b^2$ f) $64x^2y^2 - 125$ g) $a^2 - 64$ h) $64x^6 - y^6$
 i) $(a + b)^2 + 1$ j) $(x + 2)^2 - 27$ k) $(x - y)^2 - 8(x + y)^2$ l) $p^2 + \frac{1}{p^2}$
 m) $\left(\frac{a}{b}\right)^2 - \left(\frac{b}{a}\right)^2$ n) $27x^2 - 30x^2y + 40xy^2 - 64y^2$ o) $8 - 6a - 9a^2 + 27a^3$
 p) $x^2 + \frac{1}{x^2}$ q) $p^2 + \frac{1}{p^2}$

Factorise.

a) $x^2 + 4x + 3$ b) $x^2 - 7x - 8$ c) $a^2 - 27a + 180$
 d) $2x^2 + 7x + 6$ e) $3p^2 - 7p - 6$ f) $2x^2 + 3xy - 5y^2$
 g) $3a^2 - 16ab + 13b^2$ h) $9a^2bx + 12a^2b^2x - 5ab^3x$ i) $12\frac{a^2}{b^2} + \frac{a}{b} - 20$
 j) $\frac{x^2}{y^2} - 2 - \frac{3y^2}{x^2}$ k) $2(x + y)^2 + 9(x + y) + 7$ l) $3(x - y)^2 - 10(x - y) + 8$
 m) $8a^2 - 14a^2 - 9$ n) $2x^2 + 17x^2 + 8$ o) $3x^4 - 79x^2 - 54$

The End.