



## Octahedral classes, kharadi

2nd floor, yashwant plaza, near bank of India,

### Class 08 - Mathematics

#### polynomials

Maximum Marks: 39

Time Allowed: 1 hour and 30 minutes

#### Section A

1. Add  $p^3 - 1$ ,  $p^3 + p + 2$  and  $p^2 - 2p + 1$ .
2. Add:  $10mn$ ,  $-\frac{3}{8}mn$  and  $-\frac{1}{4}mn$
3. Find the sum of  $4x^2 - 3x + 2$  and  $3x^2 + 4x - 8$ .
4. What must be added to  $2m^2 - 3mn + 3n^2$  to get  $5m^2 + 2mn + 7n^2$ ?
5. What is the value of  $a^2 + b^2 - 10$  at  $a = 0$  and  $b = 0$ ?
6. The sides of a triangle are  $x^2 - 3xy + 8$ ,  $4x^2 + 5xy - 3$  and  $6 - 3x^2 + 4xy$ . Find its perimeter.
7. The adjacent sides of a rectangle are  $x^2 - 4xy + 7y^2$  and  $x^3 - 5xy^2$ . Find the area.
8. The base and the altitude of a triangle are  $(3x - 4y)$  and  $(6x + 5y)$  respectively. Find its area.
9. The sum of two numbers is 4 and their product is 3. Find the sum of their squares.
10. Find the product of  $\left(\frac{1}{2}p^3q^6\right) \left(\frac{-2}{3}p^4q\right) (pq^2)$
11. What must be added to sum of  $x^2 - 4x + 7$  and  $2x^2 + 5x - 9$  to get 0.
12. Find the volume of rectangular box whose length, breadth and height are  $(5x - 2)$ ,  $(2x - 3)$ ,  $(3x - 1)$
13. Find the value of:  $x^2 - \frac{1}{5}$  at  $x = -1$ .