

Name.....

Batch.....

GRADE – X CBSE

TOTAL MARKS 28

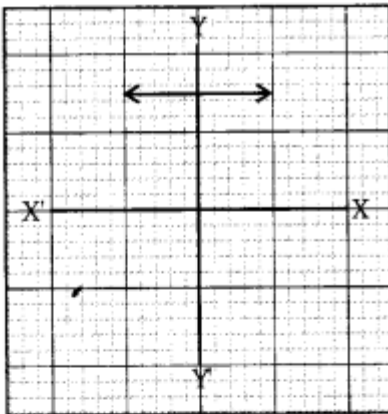
DATE: 2ND FEBRUARY, 2023

SUBJECT: MATHS-POLYNOMIALS

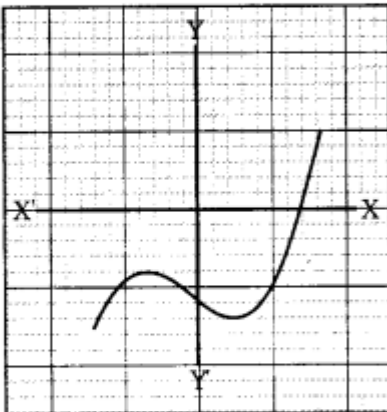
1HRS

1. The graphs of $y = p(x)$ are given below for some polynomials $p(x)$. Find the number of zeroes of $p(x)$ in each case. 4MARKS

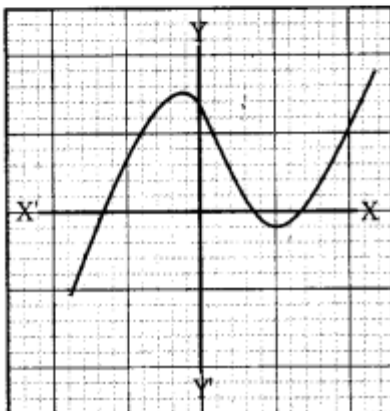
(i)



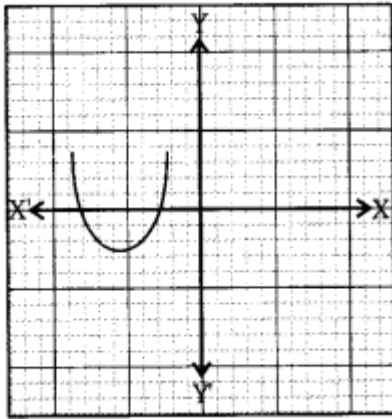
(ii)



(iii)



(iv)



2. Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and their coefficients: 12

MARKS

(i) $x^2 - 2x - 8$

(ii) $4s^2 - 4s + 1$

(iii) $6x^2 - 3 - 7x$

(iv) $4u^2 + 8u$

(v) $t^2 - 15$

(vi) $3x^2 - x - 4$

3.

Find a quadratic polynomial each with the given numbers as the sum and product of zeroes respectively: 12 MARKS

(i) $\frac{1}{4}, -1$

(ii) $\sqrt{2}, \frac{1}{3}$

(iii) $0, \sqrt{5}$

(iv) $1, 1$

(v) $\frac{-1}{4}, \frac{1}{4}$

(vi) $4, 1$