CLASS X

MATHS

1. Solve by factorization a. $4x^2 - 4a^2x + (a^4 - b^4) = 0$

2. The sum of areas of two squares is $468m^2$ If the difference of their perimeters is 24cm, find the sides of the two squares.

3. Find the positive value of k for which $x^2 + Kx + 64 = 0$ & $x^2 - 8x + k = 0$ will have real roots.

4. By completing square method solve for x: $4x^2 + 4\sqrt{3}x + 3 = 0$

5. The fourth term of an AP is 0. Prove that its 25th term is triple its 11th term.

6. A man arranges to pay a debt of Rs.3600 in 40 monthly installments which are in a AP. When 30 installments are paid he dies leaving one third of the debt unpaid. Find the value of the first installment.

7. . Find the middle term of the AP 1, 8, 15....505

8. Find the vertices of the triangle, the mid-points of whose sides are (3,1),(5,6) and (--3,2)

9. Find the area of the quadrilateral whose vertices taken in order are (-4,-2), (-3,5), (3,-2) and (2,3).

10.A (4,--8) B (3,6) and C (5,--4) are the vertices of a ΔABC and D is the mid-point of BC and P is a point on AD joined such that $\frac{AD}{PD}$ =2,find the coordinates of P.

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