Contact: Neeraj Kumar Gupta 0161-4644345, 09888013451,

GUIDANCE TUTORIALS

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Maths TEST X Paper 1

1. Find the value of k such that quadratic equation $x^2 - 2kx + (7k-12) = 0$ has equal roots.
2. Find the value of k such that quadratic equation $9x^2 + 8kx + 16 = 0$ have equal roots.
3. Find the value of c such that quadratic equation $4x^2 - 2(c+1)x + (c+4) = 0$ has real and equal roots.
4. Find the value of k such that quadratic equation $(k+4)x^2 - (k+1)x + 1 = 0$ has equal roots.
5. If one root of the equations $3x^2 - kx - 2 = 0$ is 2, Find the value of k and the other root.
6. If one root of the equations $2x^2 - kx - 6 = 0$ is 2, Find the value of k and the other root.
7. If - 5 be the one root of the equations $2x^2 - px - 16 = 0$ is 2 and the quadratic equation $p(x^2+x) = k = 0$ has equal roots , Find the value of k and p.
8. Solve for x : $4x^2 - 2(a^2+b^2)x + a^2 b^2 = 0$
9. Solve for x : $abx^2 + (b^2 - 4ac) - bc = 0$
10. Solve for x: $\frac{1}{a+b+x} = \frac{1}{x} + \frac{1}{b} + \frac{1}{c}$