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QUADRATIC EQUATIONS

ASSIGNMENT NO. 15

- 1. Solve for x: $abx^2 + (b^2 ac)x bc = 0$
- 2. If (-4) is a root of the quadratic equation $x^2 + kx 4 = 0$, and the quadratic equation $x^2 + px + k = 0$ has equal roots, find the values of p and k.
- 3. Solve for x: $\left(\frac{2x}{x-5}\right)^2 + \frac{10x}{x-5} 24 = 0, x \neq 5$
- 4. Rs. 6500 were divided equally among a certain number of persons. Had there been 15 more persons, each would have got Rs. 30 less? Find the original number of persons.
- 5. A farmer wishes to grow a 100 m² rectangular vegetable garden. Since he has only 30 m barbed wire, he fences three sides of the rectangular garden letting compound wall of his house act as the fourth side fence. Find the dimensions of his garden.
- 6. The product of two consecutive positive integers is 306. Find the integers.
- 7. Solve for $x: 2\left(\frac{x-1}{x+3}\right) 7\left(\frac{x+3}{x-1}\right) = 5, x \neq -3, 1$
- 8. Solve for x: $36x^2 12ax + a^2 b^2 = 0$
- 9. A tow digit number is such that the product of the digits is 20. If 9 is subtracted from the number, the digits interchange their places. Find the number.
- 10.300 apples are distributed equally among a certain number of students. Had there been 10 more students, each would have received one apple less, find the number of students.