
Aptitude Assignment 2

1. What quantity of water should be added to the milk water mixture so that the milk water ratio changes from 2:3 to 4:11. The quantity of milk in the mixture is 40 litres?
2. Linear equation $2x+3y=0$ meets the x & y-axis at the point?
3. a & b are positive integers such that $a^2-b^2=19$. Find a & b?
4. Find $a^3+b^3+c^3+3abc$, where $a+b+c=5$ & $a^2+b^2+c^2=10$?
5. Sum of two, two-digit numbers is a perfect square. The digits of the first two-digit number are two consecutive positive integers; also, when the digits of the first number are reversed, the second number is formed. Find these numbers & the square root of their sum.