Часть С

9)

1) [(b0,5 + 3)2  - (b0,5 - 3)2 ] / [b\*[(b0,5 + 3) \* (b0,5 - 3)] = [b + 6b0,5 + 3 - b + 6b0,5 – 3] / b\*(b – 9) =

= 12b0,5 / b\*(b – 9) = 12/√b(b – 9)

2) [12/b0,5(b – 9)] \* (b – 9)/b0,5 = 12 / b

10) √(9x2 – 6x + 1) = x2  + 1

(√(9x2 – 6x + 1) )2 = (x2  + 1)2

9x2 – 6x + 1 = x4 + 2x2  + 1

x4 - 7x2  + 6x = 0

x(x3 – 7x + 6) = 0

x1 = 0

x3 – 7x + 6 = 0

x2 = 1

x3 – 7x + 6 Ix - 1  
-(x3 – x2) x2 + x - 6  
 x2 – 7x  
 -(x2 – x)  
 - 6x + 6  
 -(-6x + 6)  
 0

x3 – 7x + 6 = ( x – 1)( x2 + x – 6)

x2 + x – 6 = 0

x4 = 2

Ответ: x1 = 0; x2 = 1; x3 = - 3; x4 = 2