Приращение

1) f(x) =

2) f(x0 + ∆x) = 1/(x0 + ∆x)3

3) ∆f = f(x0 + ∆x) – f(x0) = 1/(x0 + ∆x)3 – 1/x30 =

(x03 – (x0 + ∆x)3)/(x30\*(x0 + ∆x)3) =

(x30 - x30 – 3x20 Δx - 3x0∆x2 - ∆x3) / (x30\*(x0+∆x)3) =

= [- ∆x (3x20 + 3x0∆x + ∆x2)] / [x30\*(x0 + ∆x)3]

4) = [- ∆x (3x20 + 3x0∆x + ∆x2)] / [x30\*(x0 + ∆x)3]