FISA DE LUCRU 1

1. Editați următoarele formule matematice:

a) $$f(x) = b_0 + \cfrac{a_1}{b_1 + \cfrac{a_2}{b_2 + \cfrac{a_3}{b_3 + \cfrac{a_4}{b_4 + \cfrac{a_5}{b_5 + \ldots}}}}}$$

b) $$f(x) \equiv 1 - \frac{x}{3!} + \frac{x^2}{5!} - \frac{x^3}{7!} + \ldots$$

c) $$R(x) \equiv \frac{\sum_{k=0}^{M} a_k x^k}{1 + \sum_{k=1}^{N} b_k x^k}$$

d) $$2F_1(a,b,c;y) = 1 + \frac{ab}{c}\frac{z}{1!} + \frac{a(a+1)b(b+1)}{c(c+1)}\frac{z^2}{2!} + \ldots$$

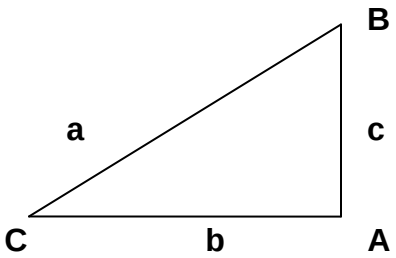
$$+ \frac{a(a+1)\ldots(a+j-1)b(b+1)\ldots(b+j-1)}{c(c+1)\ldots(c+j-1)}\frac{z^j}{j!} + \ldots$$

FIŞA DE LUCRU 2

1. Scrieți într-un tabel următoarele formule matematice:

$x^3+y^3+z^3-3xyz =$	$(x+y+z)(x^2+y^2+z^2-xy-yz-zx)$
$x^3+y^3+z^3 =$	$(x+y+z)^3 - 3(x+y)(y+z)(z+x)$
$C_n^k = \frac{n!}{k!(n-k)!}$	$P_n = n!$
$A_n^k = \frac{n!}{(n-k)!}$	$C_n^p = C_n^{n-p}$

2.Desenați triunghiul de mai jos şi scrieți într-un tabel formulele matematice:



$\sin B = \frac{b}{a}$	$\sin C = \frac{c}{a}$
$\cos B = \frac{c}{a}$	$\sin C = \frac{b}{a}$
$tgB = \frac{b}{c}$	$tgC = \frac{c}{b}$
$ctgB = \frac{c}{b}$	$ctgC = \frac{b}{c}$