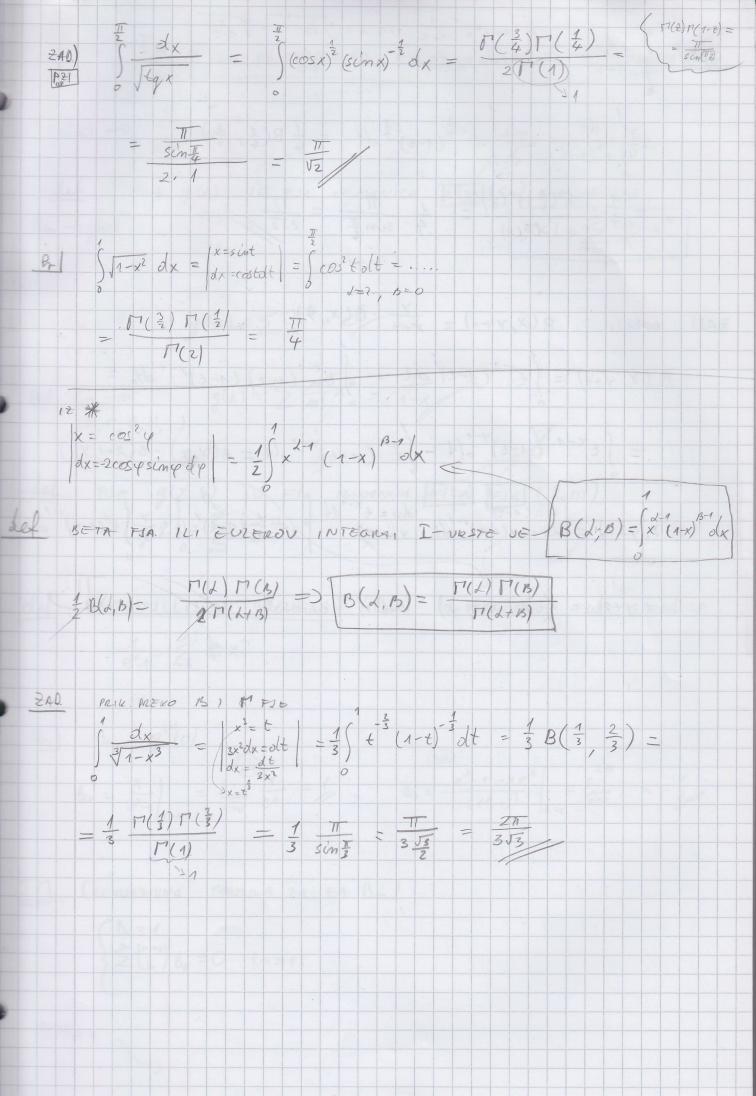
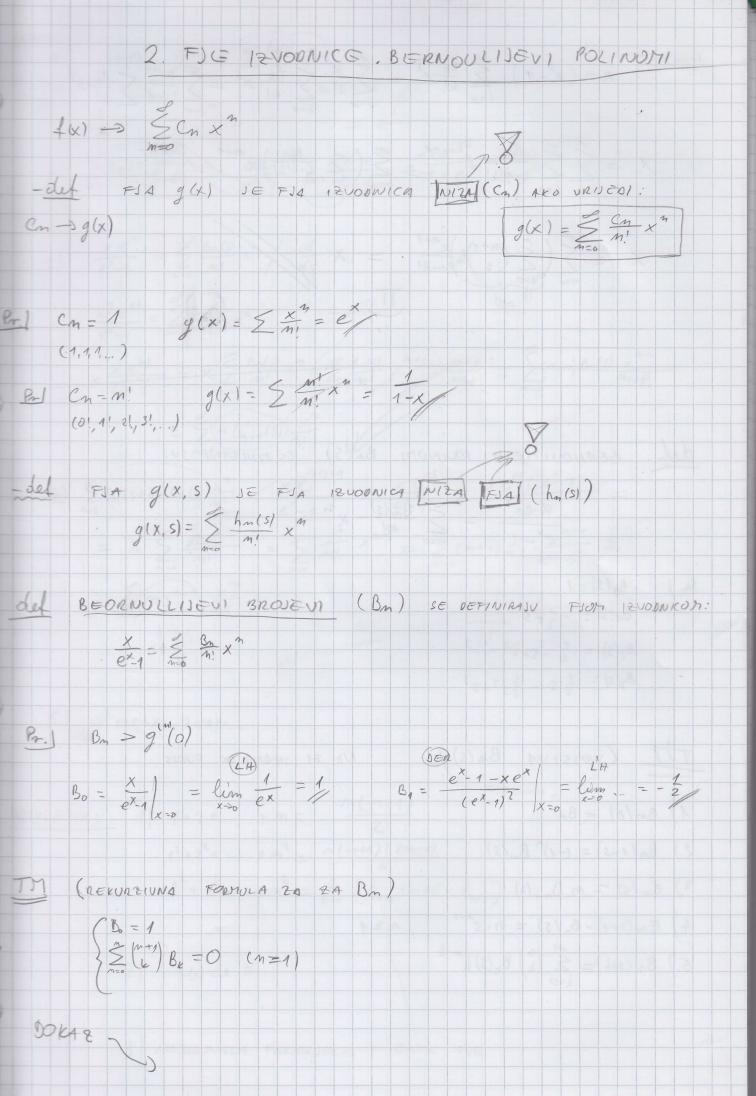
15. 12.2009. BURIO - PREDAVANUE NASTAYAK det PSI ILI DIGAMA FIA $\psi(x) = \left(\ln \Gamma(x)\right)' = \frac{\Gamma'(x)}{\Gamma(x)}$ V(2) = de ln [12] = de [ln (2e 1/ (1+ 2) 1 e 2)] $= \frac{1}{12} \left[-\ln z - 8z + \frac{5}{12} \left(\frac{3}{4} - \ln \left(1 + \frac{5}{4} \right) \right) \right]$ $\psi(z) = -\frac{1}{2} - 8^{2} + \frac{5}{2} \frac{z}{k(z+k)}$ T(2) $T(3) = \int_{a}^{b} t^{-a} dt$. $\int_{a}^{b-1} e^{-3} ds = \left| t = x^{2} \right| S = \sqrt{2}$ $= \int_{2x}^{2x-1} e^{-x^2} \left(\frac{1}{2} \right)^{2x-1} e^{-y^2} dy = 4 \int_{2x-1}^{2x-1} \frac{1}{2x-1} e^{-(x^2+y^2)} dx dy$ $= \begin{vmatrix} x = \tau \cos \varphi \\ y = \tau \sin \varphi \end{vmatrix} = 4 \left(\frac{\pi}{2} e^{2k-1} (\tau \sin \varphi)^{2k-1} e^{-\tau^2} d\tau d\varphi \right)$ $= \begin{vmatrix} x = \tau \cos \varphi \\ y = \tau \sin \varphi \end{vmatrix} = 4 \left(\frac{\pi}{2} e^{2k-1} (\tau \sin \varphi)^{2k-1} e^{-\tau^2} d\tau d\varphi \right)$ $=2\int(\cos\varphi)^{2d-1}(\sin\varphi)^{2b-1}d\varphi\int_{0}^{\infty}\tau^{2d+2b-2}e^{-\tau^{2}}$ $\Gamma(\lambda) \cdot \Gamma(B) = 2 \cos \varphi \cdot \sin^2 \varphi \cdot d\varphi \int u^{+B-1} e^{-u} du$ u = 2d-1''BILO NA P21 08 INTEGRAL POTENCINA TRIG FLA



 $\frac{\partial}{\partial x} = \frac{1}{1+x^4} = \frac{1}{1-x} - 3 \times = \frac{4}{1-x} - 1 = \frac{4}{1-x} + \frac{1}{1-x} = \frac{4}{1-x} = \frac{1}{1+x^4} = \frac{$ $=\frac{1}{4} \left(\frac{1}{x^{3}(1-t)} + \frac{1}{4} \right) t^{-\frac{3}{4}} (1-t)^{-\frac{1}{4}} dt = \frac{1}{4} B(\frac{1}{4}, \frac{3}{4})$ $= \frac{1}{4} \cdot \frac{\Gamma(\frac{1}{4}) \Gamma(\frac{3}{4})}{\Gamma(1)} = \frac{1}{4} \cdot \frac{11}{\sin \frac{\pi}{4}} = \frac{17}{2\sqrt{2}}$ 3ADI DOKUTI: B(X, Y+1) = X+Y · B(X, Y) $B(x, y+1) = \int_{0}^{1} t^{x-1} (1-t)^{x} dt = \int_{0}^{1} t^{x-1} (1-t)^{x-1} dt =$ $= \int e^{x-1} (1-e)^{x-1} dt - \int e^{x} (1-e)^{x-1} dt = B(x,y) - B(x+1,y)$ $B(x,y+1) = |u=(1-t)^{x} = |u=(1-t)$ $B(x,y+1) = \frac{1}{x}B(x+1,y)$ unst, a a row y



$$X = \sum_{m=0}^{\infty} \left(\sum_{k=0}^{m+1} \binom{m+1}{k} + \sum_{k=0}^{m+1} \binom{m+1}{k} + \sum_{k=0}^{m+1} \binom{m+1}{k} + \sum_{k=0}^{m+1} \binom{m+1}{k} \binom{m+1}{k} + \sum_{k=0}^{m+1} \binom{m+1}{k} \binom{m+1}{$$

det BERNOULISEUR POLINOMY. BM(S) DE FINIMANI SU:

$$x e^{xs} = \sum_{m=0}^{\infty} \frac{B_m(s)}{m!} x^m$$

$$B_{2}(s) = 1$$
 $B_{3}(s) = -\frac{1}{2} + s$
 $B_{3}(s) = \frac{1}{2} s - \frac{5}{2} s^{2} + s^{3}$

NA 31 JEUNO OD PUDIS.

1.)
$$Bm(0) = Bm$$

5.)
$$B_n(s+h) = \underbrace{\Xi}_{k+0}^{(n)} B_k(s) L^{m-k}$$

