Seminar 6 O Cale derivata de ordinul Me N a functular de mai jos si precisati multimez pe care acoste functu sunt in definit derivabile f(x) = sim x $(x) = \cos x$ 9" (x) = - cos x 1 = ((-1) Krimx, m=5K Cosx, M = 4K Cosx, M = 4K+1 -sinx, m = 4K+2 -cosx, M = 4K+3(w) indef. derivalule On X+1>0=>X> (x) = 2.3.4 (x+1)-5 J'indefinit derivabile per (-1, +00)

c) Formula lui deibnie: u = u(x), v = v(x)( $u \cdot v$ ) (m) =  $\sum_{i=1}^{m} C_{i}^{k} \cdot u^{(k)} \cdot v^{(m-k)}$  $u(x) = x^2 - x$ , u'(x) = 2x - 1, u'(x) = 2, u''(x) = 0(m) (x) = Cm · (x-x) · ex + Cm · (2x-1) · ex + Cm · 2x-1) · ex + Cm · 2x-1) = (x-x)ex + w(sx-1). ex + 2 . 5 ex ex(x2+x(2m-1)+m2-2m), to me in se verifice pt. me 1919 f(x) indefinit derivabile pe R findel dervalule pe (-20,1)







