```
11 EL = 1(A+1)((A+1)
 4: $6 = 100
En 56 = (4.1)14-2)(14 3) 7
 Ei= E & (n+1) = nen+Alin+1 + (n+1) = 2113+113/12/14/16/ + 10/1
 = 293+992+13n+6 = (n2+3n+2)-(2n+3] - (n+1)(n+2)(2n+3)
12 & 6 = ( E & )
 1: É6 = ( = 1) = 1 = 1 (D)
 Man: $ 1 = ($ A) ?
 E 6 = E 63 + (n+1)3 = (n(n+1)) + (n+1)3 = 119121212 + n + 3h + 3n + 1 = 1
 = R4+2n3+n+4n+12n+17n+4 = 12+9n2+4+6n3+4n+12n
 = \frac{(n^2 + 3n + 2)^2}{4} = \left(\frac{n^2 + 3n + 2}{2}\right)^2 = \left(\frac{n^2 + 2n + n + 2}{2}\right)^2 =
 = ((n+1). (n+2))2
1.3 \( (-1) \frac{1}{2} = (-1)^n \frac{(n-1)n}{2}, n > 2
 day & 1-10 6 = (+1) 1 A(N+1) ? N= M+1
 E. (-1) 1-1 (= 6 th. 10-11m + 611 -1 m2 = (+1) (2) +m) =
 = (-1/3" m / 1-2 + m) = (-1) m-1, m (m17)
```

```
14 £ 66! = (n+1)!-1
A 1011=81-1=1 0
For: E 62! = E + (not)(001)! = (n+1)!-1 = (n+1)(n+1!)=
= (x+1): (x+1+1)-1 = (x+2)!-1
1,5 \le e(k+1) - \frac{n(n+1)(n+2)}{2}
 A: 1.(1.1) = 1.2.3 = 8
Ann: Eller) = (n+1)(n+2)(n+3) ?
 \leq e(\ell+1) = \leq e(\ell+1) + (n+1)(n+2) + \frac{n(n+1)(n+2)}{2} + (n+1)(n+2) =
= n(n+1)(n+2) + 3(n+1)(n+2) - (n+1)(n+2)(n+3)
1.6 5 aret 1 - aret 1
 A and 1 = arct 1 = arct 2
 of ne1: 2 arete = arete 1 ?
  5 ents 1 = E arete 1 + ant (n+1) = drug + aret 2(n+1)=
 = arety \left(\frac{n}{n+1} + \frac{1}{2(n+1)^2}\right) = arety \left(\frac{2(n+1)^2}{2(n+1)^2}\right)
  = and \frac{(n^2+2n+1)}{2(n+1)^2-n} = and \frac{(12n^2+2n+1)(n+1)}{2(n+1)^2-n}
  = arctg (2n3+2n2+2n+n+1) = arctg (2n3+4n2+3n+1) =
  = artly ( 2n3 + 4n +2n2 +5n +2) = archy (en2(x+1) + 2n(x+1) + 2n(x+1)) =
```



