1.E) DOCHAZIE INDUILCI PODICIN

$$\prod_{i=2}^{n} \frac{i-1}{i} = \frac{1}{n}$$

$$6(n+1)^{2}+24(n+1)$$
  
 $6(n^{2}-2n+1)$   
 $6n^{2}-12n+6+2n+2$ 

$$3)\begin{pmatrix}0\\0\end{pmatrix}=1$$

$$\sum_{k=0}^{n+1} \binom{n}{k} = \binom{n}{k} + \binom{n}{k+1} = \binom{n}{k}$$

$$k=0 \qquad k=0$$

$$\sum_{k=0}^{\infty} \binom{n}{k} \neq \binom{n+kn}{k+1} = 2^{n} + \binom{n}{k} = 2^{n} + 0$$

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1.4) (1)	1 = 1 1 1	+2) K4 }					
1	= 1		$m+1=\frac{1}{2}$	1 m2+2 m	+1 + A	77)	
			n+1/2	n+3n+2			
n (	lityn.	+1 = 7 (	1 +1) + n	+1 = 4	A \$ 40	noty	
1/2/	~ 2 + ~ )	+ m + 1 =	$=\frac{7}{2}(n+1)^{2}$	2 + n +1			
1.13	n 2 in = 1	2i-1=	ma				
6	movice: PE	once m	D g ne	TWIFE			
	2.1-1	= 1 ~	1 =1	-1) = \( \frac{1}{2} \)	(21	-1) + 2(m+	1)-1=
			2 2 2 4	11+2~+0	2-1= 3	2i + 2n +	2 - 2 3