

إعدادي 2020



المحاضرة الثانية - مبدأ الاستنتاج الرياضي م. أدهم أسامة







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Provet	that $\frac{1}{n+1} + \frac{1}{n+2} + \frac{1}{2n} > \frac{13}{24} : n > 1$	1
	At n=2	1
	$L.H.S = \frac{1}{3} + \frac{1}{4} = \frac{7}{12} \times \frac{2}{2} = \frac{14}{24} > .$	13
	Λ+ n- K	
	At $N=K$ Asumethat $SK = \frac{1}{K+1} + \frac{1}{K+2} + - \frac{1}{2K} > \frac{13}{24}$ , $K$	> ( ,
	4 / 14 - K+1	
	$P.T.P: \frac{1}{1/4-2} + \frac{1}{1/4-2} + \frac{1}{1/4-2} + \frac{1}{2K+2} > \frac{13}{24}$	7
	M+2 N+3 - 2K+2 -	. (9)
	SK+1 - SK = 1 - 1 - 1 - 2K+1 + 2K+2 + 2(2K+1)	(2K+z) (7K-
- 1	:, SK+1 > 5K	+
-type V	$\frac{13}{214}$	
	24	
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