Assignment 2 Name: - Faizan Nadrem Chollno: 002 Department: BSSE Enample # 17 Use the Summation notation to express the sum of the first 100 terms of Sequences {ai}, where ai $= \frac{1}{j} for j = 1, 2, 3, ...$ Solution: The lower limit for the index of summation and the upper limit 100. We write this sum

-	Example 18:	
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	What	and the second second second second
Variation and the second	What is the value of & j. ? Sal line.	Colleges of the Samuel Annies of Samuel
Total Million	i=1	The state of the s
and the same	MALTON.	
Territoria de la constanta de	We have: $j^2 = (1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2$	
	$\frac{3}{2} = (1)^{2} \cdot (2)^{2} \cdot (2)^{2} \cdot (2)^{2}$	and the second s
	J=1 $J=(1)+(2)+(3)+(4)+(5)$	
and the light		
TO PROCEEDING	= 1+4+9+16+25	
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	Enample 17	
	What is the Value of EC-1" ?	
	$0 f = (-1)^{t} $	
	K:4	ger namn af direktioner (a maaren state mag Mad man ika Milli Manggari
	Solution:	
an Albardo d'Amad	We have	
		M.
	$ \underbrace{\xi} (-1)^{4} = (-1)^{4} + (-1)^{5} + (-1)^{6} + (-1)^{6} $	7
	K24 + (-1)8	
	= 1 + (-1) +1+(-1)+1	
	- 1	
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Theorem 1 95 a and 6 are teal number 6 70 $ab = \int ax^{n+1} - q$ (n+1)a1600f: 65n = 6 E 08 z = 20 z = 20j-12 Eark = (E as) + (as m+1 -

25n+ (a6n+1-a) From these quantities we See that Sm = Sn + (at n+19) Solving for Sn show that if 6 = 10 Sn = ast+1-a 8-1 if 8=1, then the 50= = = 000° = E a = (n+1)a 6 no 29 What are the values of these Sums? E (K+1) = (1+1) + (2+1) + (3+1) + (4+1) + (5+1)= 2+3+4+5+6 z 20.

Qno:30
What are the values of these things
$\rho = \rho = \rho = \rho = \rho$
S = {1,3,5,7}
Car 51 Cin
(0) \mathcal{E} \mathcal{L}
= 1+3+5+7
z J.G
Qno: 31
What is the value of each
of these sums of tooms of
a Geometric Deogression? (a) Z 3.2;
j ₂ 0
Note that a = 3(2) = 3 and
822
0 = [. 8n+1-1]
6-1
$\frac{2}{2} \cdot \frac{3}{2} \cdot \frac{29-1}{2-1}$
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7)),

	ans 32
	4834
The second secon	
The second secon	Find the values of each
and the same of	Jums?
	(b) 8;
Para Laborato e conscience despression seguina.	(b) 8; E2
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and the second s	E [3 ¹ -2 ¹]
makanin no soo si Tillina alakanin na marakanin sa	8 . 520
	$= \underbrace{\xi}_{120} (3^{1}) - \underbrace{\xi}_{120} 2^{1}$
	J20 J20
and the second second	$\left(\left[$
ade was a series and resident series and series	7 1 2-1
Committee of the Commit	- a [~n+1 - 1] - 1 [29 - 1]
	2 4. 5 -1 -1 1-1
nover of ungreated \$150 ft and other one	6-1 1 2-3 3
	z 9841 -511
	z 9330
erestrike entrege i gjette støpt styrket men en handet	
and the contract of the contra	

Qno.33 Complete each of these. 2 3 Σ Σ (i+j) i=1 j=0 (i+1+i+2+i+3)(3i+6 3 E (i+2) 3(1+2+2+2)

Qno.34 Complete cach of these. $\sum_{i=1}^{2} \sum_{j\geq 1} (i-j)$ ξ ((i - j) = E (i-1+i-2) 2 E (21-3) z 2(1)-3+2(2)-3.+2(3)-3 z 3.