

1.	The number o	f nun	nbers lying bet	ween	100 and 500 th	nat are	e divisible by 7	but n	ot by 21, is								
	(1) 57							(2)	19								
	(3) 38							(4)	48								
2.	If S_n denotes	the si	n = n terms of						qual to								
	(1) $2S_n$							(2)	S_{n+1}								
	(3) $3S_n$							(4)	nathongo								
3.	If $3^{2\sin 2\alpha - 1}$, 1	4 and	$3^{4-2\sin2lpha}$ are t	the fin	rst three terms	of an	A.P. for some of	α , the	n the sixth ten	n of t	this A.P. is						
	(1) 66								81								
	. ,							` '									
4.	If the sum and	l proc	luct of the first	three	terms in an A	. <i>P</i> . aı	re 33 and 1155	, respe	ectively, then a	valu	e of its 11 th ter	m is:					
	(1) -25							(2)	-35								
	(3) 25							. ,									
5.		, l	e a G.P. such	that o	$a_1<0,a_1+a_2$	$_{2} = 4$	and $a_3 + a_4 =$	16. If	$f\sum_{i=1}^9 a_i = 4\lambda$	the	n λ is equal to.						
	(1) -513								171 mothongo								
	(3) 171							` ′	$\frac{511}{3}$								
6.											ll be the comm		_				
									9								
	(3) $\frac{1}{6}$							` ′	None of thes								
7.	ŭ	-					terms to the su				9, and the sum					1 the	
		nis ge	ometric progre	ssion	18												
	(1) 28 (3) 7							(4)) 21) 42								
///.	mathongo	20)/5	$(32)^{1/6}(32)^{1/36}$.	14.	mathongo			///	mathongo								
8.	The product (32)(3	(32) (32) .	t	50 ∞ 1S				. 22								
	(1) 16 (3) 64								32								
0			mathongo								mathongo					///.	
9.	(1) $2 - \sqrt{3}$	e nun	ibers form an ii	icreas	sing G.P. II the	miaa	ne term in this		$3 + \sqrt{3}$	new i	numbers are in	A.P.,	Then the comin	ion ra	illo of the G.P.	is:	
	(1) 2 (0																
	(3) $\sqrt{2} + \sqrt{3}$	///.															
10.	(3) $\sqrt{2} + \sqrt{3}$ The numbers		mathongo					(4)	$3+\sqrt{2}$		mathongo						
///. 10.	The numbers	a, b,						(4)	$3+\sqrt{2}$		mathongo hen which of th						
///. 10. ///.	. ,	a, b,	c are in A.P. ar	nd a \dashv		The nu	imbers $(a-2)$, b, (d	$3+\sqrt{2}$			e foll	owing is not th	e pos	sible value of		
///. 10. ///.	The numbers $a^2 + b^2 + c^2$?	a, b,	c are in A.P. ar	nd a \dashv	+b+c=60. T	The nu	imbers $(a-2)$	(4) , b, (d	$(3+\sqrt{2})$ are in G	i.P., tl	nen which of th	e foll	owing is not th	e pos	sible value of		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298	a, b,	c are in A.P. ar	nd a +	+b+c=60.7	The nu	umbers $(a-2)$	(4) , b, (d	$3 + \sqrt{2}$ (c + 3) are in G 1218 None of thes	e.P., tl	hen which of th	e foll	owing is not the	e pos	sible value of		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298	a, b,	c are in A.P. ar	nd a +	+b+c=60.7	The nu	umbers $(a-2)$	(4) , b, (d	$3 + \sqrt{2}$ (c + 3) are in G 1218 None of thes	e.P., tl	nen which of th	e foll	owing is not the	e pos	sible value of		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298	a, b,	c are in A.P. ar	nd a +	+b+c=60.7	The nu	umbers $(a-2)$	(4) , b, (d	$3 + \sqrt{2}$ (c + 3) are in G 1218 None of thes	e.P., tl	hen which of th	e foll	owing is not the	e pos	sible value of		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298	a, b,	c are in A.P. ar mathongo	///.	+b+c=60.1	///. ///.	mathongo mathongo	(4) , b, (d (2) (4)	$3 + \sqrt{2}$ go (c + 3) are in G 1218 One of these mathons	e ///.	mathongo	e foll	owing is not the	///.	mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298	a, b,	c are in A.P. ar mathongo	///.	+b+c=60.1	///. ///.	mathongo mathongo	(4) , b, (d (2) (4)	$3 + \sqrt{2}$ go (c + 3) are in G 1218 One of these mathons	e ///.	hen which of th	e foll	owing is not the	///.	mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo	a, b,	c are in A.P. ar mothongo mothongo	nd a -	+b+c=60.1 mathongo	///.	mathongo $(a-2)$ mathongo m athongo	(4) , b, (6) (2) (4) ///.	$3 + \sqrt{2}$ go c + 3) are in G 1218 ongo None of thes mathongo	e ///	mathongo mathongo	e foll	owing is not the mathongo mathongo	///.	mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo	a, b,	c are in A.P. ar mothongo mothongo	nd a -	+b+c=60.1 mathongo	///.	mathongo $(a-2)$ mathongo m athongo	(4) , b, (6) (2) (4) ///.	$3 + \sqrt{2}$ go c + 3) are in G 1218 ongo None of thes mathongo	e ///	mathongo	e foll	owing is not the mathongo mathongo	///.	mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo	a, b,	c are in A.P. ar mothongo mothongo	nd a -	+b+c=60.1 mathongo	///.	mathongo $(a-2)$ mathongo m athongo	(4) , b, (6) (2) (4) ///.	$3 + \sqrt{2}$ go c + 3) are in G 1218 ongo None of thes mathongo	e ///	mathongo mathongo	e foll	owing is not the mathongo mathongo	///.	mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo	a, b,	c are in A.P. ar mathongo mathongo mathongo	//.	+b+c=60.1 mathongo mathongo mathongo	///.	mathongo mathongo mathongo	(4) , b, (d) /(2) (4)	$3 + \sqrt{2}$ go c + 3) are in Go 1218 ongo None of these mathongo	i.P., tl	mathongo mathongo mathongo	me foll	owing is not the mathongo mathongo mathongo	//. ///.	mathongo mathongo mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo	a, b,	c are in A.P. ar mathongo mathongo mathongo	//.	+b+c=60.1 mathongo mathongo mathongo	///.	mathongo mathongo mathongo	(4) , b, (d) /(2) (4)	$3 + \sqrt{2}$ go c + 3) are in Go 1218 ongo None of these mathongo	i.P., tl	mathongo mathongo	me foll	owing is not the mathongo mathongo mathongo	//. ///.	mathongo mathongo mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo	a, b,	c are in A.P. ar mathongo mathongo mathongo	///.	+b+c=60.1 mathongo mathongo mathongo	///.	mathongo mathongo mathongo	(4) , b, (d) /(2) (4)	$3 + \sqrt{2}$ go c + 3) are in Go 1218 ongo None of these mathongo	i.P., tl	mathongo mathongo mathongo	me foll	owing is not the mathongo mathongo mathongo	//. ///.	mathongo mathongo mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo mathongo	a, b, ///. ///. ///.	c are in A.P. ar mothongo mothongo mothongo mothongo	//L	+b+c=60.1 mathongo mathongo mathongo mathongo	///. ///. ///.	mathongo mathongo mathongo mathongo	(4) , b, (d) (2) (4) ///	c+3) are in G c+3) are in G 1218 ongo None of these mathongo mathongo	///.	mathongo mathongo mathongo mathongo	e foll	owing is not the mathongo mathongo mathongo mathongo		mathongo mathongo mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo mathongo	a, b, ///. ///. ///.	c are in A.P. ar mothongo mothongo mothongo mothongo	//L	+b+c=60.1 mathongo mathongo mathongo mathongo	///. ///. ///.	mathongo mathongo mathongo mathongo	(4) , b, (d) (2) (4) ///	c+3) are in G c+3) are in G 1218 ongo None of these mathongo mathongo	///.	mathongo mathongo mathongo	e foll	owing is not the mathongo mathongo mathongo mathongo		mathongo mathongo mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo mathongo mathongo	a, b, ///. ///. ///. ///.	c are in A.P. are mathongo mathongo mathongo mathongo mathongo	114. 114. 114.	+b+c=60.1 mathongo mathongo mathongo mathongo mathongo	//L	mathongo mathongo mathongo mathongo mathongo	(4) , b, (d) (2) (4) ///	$3 + \sqrt{2}$ igo $c + 3$) are in G 1218 ongo None of thes mathongo mathongo mathongo	i.P., tl	mathongo mathongo mathongo mathongo mathongo	e foll	owing is not the mathongo mathongo mathongo mathongo mathongo	##. ##. ##. ##. ##. ##. ##. ##. ##. ##.	mathongo mathongo mathongo mathongo mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo mathongo mathongo	a, b, ///. ///. ///. ///.	c are in A.P. are mathongo mathongo mathongo mathongo mathongo	114. 114. 114.	+b+c=60.1 mathongo mathongo mathongo mathongo mathongo	//L	mathongo mathongo mathongo mathongo mathongo	(4) , b, (d) (2) (4) ///	$3 + \sqrt{2}$ igo $c + 3$) are in G 1218 ongo None of thes mathongo mathongo mathongo	i.P., tl	mathongo mathongo mathongo mathongo	e foll	owing is not the mathongo mathongo mathongo mathongo mathongo	##. ##. ##. ##. ##. ##. ##. ##. ##. ##.	mathongo mathongo mathongo mathongo mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo mathongo mathongo	a, b, ///. ///. ///. ///.	c are in A.P. are mathongo mathongo mathongo mathongo mathongo	114. 114. 114.	+b+c=60.1 mathongo mathongo mathongo mathongo mathongo	//L	mathongo mathongo mathongo mathongo mathongo	(4) , b, (d) (2) (4) ///	$3 + \sqrt{2}$ igo $c + 3$) are in G 1218 ongo None of thes mathongo mathongo mathongo	i.P., tl	mathongo mathongo mathongo mathongo mathongo	e foll	owing is not the mathongo mathongo mathongo mathongo mathongo	##. ##. ##. ##. ##. ##. ##. ##. ##. ##.	mathongo mathongo mathongo mathongo mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo mathongo mathongo mathongo	a, b, ///. ///. ///. ///.	c are in A.P. are mothongo mothongo mothongo mothongo mothongo mothongo mothongo	//. ///. ///. ///.	+b+c=60.1 mathongo mathongo mathongo mathongo mathongo	///. ///. ///. ///. ///.	mathongo mathongo mathongo mathongo mathongo mathongo mathongo	(4) , b, (d) (2) (4) ///	$3 + \sqrt{2}$ Igo $c + 3$) are in G 1218 Ongo None of thes mathongo mathongo mathongo mathongo	i.P., tl	mathongo mathongo mathongo mathongo mathongo mathongo mathongo	e foll	owing is not the mathongo mathongo mathongo mathongo mathongo mathongo	e pos	mathongo mathongo mathongo mathongo mathongo mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo mathongo mathongo mathongo	a, b, ///. ///. ///. ///.	c are in A.P. are mothongo mothongo mothongo mothongo mothongo mothongo mothongo	//. ///. ///. ///.	+b+c=60.1 mathongo mathongo mathongo mathongo mathongo	///. ///. ///. ///. ///.	mathongo mathongo mathongo mathongo mathongo mathongo mathongo	(4) , b, (d) (2) (4) ///	$3 + \sqrt{2}$ Igo $c + 3$) are in G 1218 Ongo None of thes mathongo mathongo mathongo mathongo	i.P., tl	mathongo mathongo mathongo mathongo mathongo	e foll	owing is not the mathongo mathongo mathongo mathongo mathongo mathongo	e pos	mathongo mathongo mathongo mathongo mathongo mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo mathongo mathongo mathongo	a, b, ///. ///. ///. ///.	c are in A.P. are mothongo mothongo mothongo mothongo mothongo mothongo mothongo	//. ///. ///. ///.	+b+c=60.1 mathongo mathongo mathongo mathongo mathongo	///. ///. ///. ///. ///.	mathongo mathongo mathongo mathongo mathongo mathongo mathongo	(4) , b, (d) (2) (4) ///	$3 + \sqrt{2}$ Igo $c + 3$) are in G 1218 Ongo None of thes mathongo mathongo mathongo mathongo	i.P., tl	mathongo mathongo mathongo mathongo mathongo mathongo mathongo	e foll	owing is not the mathongo mathongo mathongo mathongo mathongo mathongo	e pos	mathongo mathongo mathongo mathongo mathongo mathongo mathongo		
	The numbers $a^2 + b^2 + c^2$? (1) 1208 (3) 1298 mathongo mathongo mathongo mathongo mathongo	a, b, ///. ///. ///. ///. ///. ///.	c are in A.P. are mathongo mathongo mathongo mathongo mathongo mathongo mathongo	114. 114. 114. 114. 114.	+b+c=60.1 mathongo mathongo mathongo mathongo mathongo mathongo mathongo	//L. ///L. ///L. ///L. ///L. ///L. ///L.	mathongo mathongo mathongo mathongo mathongo mathongo mathongo	(4) , b, (4) (2) (4) /// /// /// /// /// /// /// /// /// /	c+3) are in G 1218 ongo 1218 ongo None of these mathongo mathongo mathongo mathongo mathongo	i.P., tl. ///. ///. ///. ///. ///.	mathongo mathongo mathongo mathongo mathongo mathongo mathongo	e foll	owing is not the mathongo mathongo mathongo mathongo mathongo mathongo mathongo		mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo		