P!I	.	ain = 1		£ 41										
rınd	tne mis	sing te	erms o	r tne s	sequenc	e.								
2,	4,	8,		_,		,		,		,		, 27	7,	81, 243,
1,	2,	4,			,							6	25	2125
												٥ ,	25,	3125
5,	20,	80,		_,		_						, -1,	1 5'	$-\frac{1}{25'}$
-4,	2,	_1											5	25
٦,	۷,	Δ,		_,		J	 4,	_			1 16'			
9,	3,	1,		,	,									
								_						
10,	100,	1000	0,			_•		5,		_			_,	,
								2, _		32,				
4,	6,	9, _		-		_		_,		32,				,
-4,	-2,	-1,				,	 5,				, 40), 8	80,	160,
							2,		,		, 16	_		
.5, .	25,	.125,		_,	,	_								
							1,		,			$-\frac{1}{8'}$	1	$-\frac{1}{32}$
2 7'	12 35'	72 175'										8	16	32
,	33	1/5					x + 1	,	,		,	(x -	+ 1) ⁴ ,	,
6,	-1,	$\frac{1}{6}$			<u> </u>									242
							3,		_,		_,	,		243
1 3'	2 9'	$\frac{4}{27}$,		_	,	-	 So	lve f	or x, a	ınd mi:	ssing	terms		
1	3	9						- 2,		2x + 2		8x +		
1/2'	3/2'	9 2'		_,		, -								x = 5
х,	x^2 ,	x^3	, .	,,		,								

C11 - 1.3 - Geometric Means HW

Write the first terms 5 of the sequence

$$t_1 = 2, r = 3$$

$$t_1 = 4, r = -3$$

$$t_1 = -4, r = \frac{1}{2}$$

$$t_1 = 4$$
, $t_3 = 16$

$$t_1 = 5, t_3 = 20$$

$$t_1 = 2, t_4 = -54$$

$$t_1 = 1, t_4 = \frac{1}{8}$$

$$t_1 = 3, t_5 = 243$$

$$t_1 = x - 1, t_3 = 4x - 4$$

C11 - 1.3 - Geo	metric Means	HW		
Find t_1 $and\ r$				
$t_2 = 2, t_3 = 4$		t_2	$= 10, t_3 = 20$	
$t_2 = 2, t_4 = 96$			$= 8, t_4 = 32$	
2 =, 24		ι2 -	$=8, t_4=52$	
$t_2 = 2, t_5 = -16$		$t_2 = 1$	$2, t_6 = 32$	
$t_3 = 4, t_{10} = 512$		t ₃ =	$= -3, t_{12} = -59049$	

	C11 -	- 1.3	- G	eom	etri	c Sec	quer	ice j	find	t_1 ,	r WS	5						
F	ind the	e first t	term i	t_1 , and	l the c	ommo	n ratio	twice	2.									
	2, 4, 8,						3,	, 9, 27,					5	, 25, 1	25,			
<i>t</i>	1 = 2						t_1 :	_										
							1											
1	$r=\frac{4}{2}$	= 2					r =	_										
	$r = \frac{8}{4}$	= 2					r =	_										
	4																	
	8, -4,	2					6	26	216					F 10	20			
	0, 1,	۷,					-0,-	-36, –	210					5, 10,	, 20,			
	$2, \frac{1}{2}, \frac{1}{8}$. ,					-27,	-3, -	$\frac{1}{2},$					27,	$3, \frac{1}{3},$			
	_	5							S						3			
	1, -1,	1,				_	10, 10	00, –1	000,				0.3,	0.03,	0.003	,		

Find the General Term	Find the 12th term. $t_{12} = ?$	Find out what term 128 is. $t_n=128$.
2, 4, 8,		
$t_1 = r =$		
r =		
$t_n = t_1 r^{n-1}$		
Find the General Term	Find the 6th term. $t_6 = ?$	Find out what term 162 is. $t_n = 162$.
2, 6, 18,		
		Find and that take 1 :- 4 _ 1
Find the General Term	Find the 8th term. $t_8 = ?$	Find out what term $\frac{1}{128}$ is. $t_n = -\frac{1}{128}$.
$8, -2, \frac{1}{2}, \dots$		
Find the General Term	Find the 5th term. $oldsymbol{t}_5=?$	Find out what term 0.00000003 is.
0.3, 0.03, 0.003,		

C11	l - 1.3	3 - G	eom	etri	c Se	quer	nces	WS									
×	3	×3_											first				
	3 -, - 1	6.	אר 18		?	,	?						commo term	on rat	io		
		t_2		,	<u>t.</u>	,	+							n er of t	terms		
$n = \frac{v_1}{n}$	1	n=2	n =	3	-6		n = n					-		-			
t.	= 2																
r =	$\frac{t_n}{t_{n-1}}$		<i>r</i> =	$\frac{t_n}{t_n}$		$ _{r} =$	t_n		\boldsymbol{A}	term c	livide	d by t	he te	rm be	fore it	±	
, –	$\overline{t_{n-1}}$		-	t_{n-1}		1	t_{n-1}										
r =	<u>:</u>		r =														
			'														
						Geo	metric	: r mus	t alwa	ys be t	the sar	me					
										,-	-						
Fine	1 + b a C	- cma	1 + 000000		1												
	l the G		term	$t_n = :$					\neg								
t_{i}	$t_1 = t_1 r$.n-1				t.	$_{n}=t_{1}$.n-1		Gen	ieral te	erm fo	rmula				
	ļ.,,	7:0				<u></u>											
Wha	t is th	e fift	h terr	$m t_5$?	$t_5 = ?$	n = 5) .										
t_n	. =																
				Ch	.1			2 (10									
								2,6,18, have al		ıltinljed	d the c	ommc	on rati	o 2 tin	nes to <i>1</i>		
				110.	licino	31.106	Coura	nave a.	30 11.0	пирисс	J GIC C	0111111	/III I G C.	J Z (63 10 2	3	
3.′	The nu	mber	1458 i	is who	ıt teri	$n?t_n =$	= 1458	n = ?									
						- 16		,									
	$= t_1 r^n$	ı-1															
n	- L ₁																

Find "n	" the nu	mber	of term	s										
2, 4, 8,	256		\rightarrow t_n		3	, 9, 27,		729		4,8	. 16,	204	18	
$2, 4, 8, \dots$ $t_n = t_2$	r^{n-1}													
8, -4, 2,	<u>2</u>	1 256		-6	5, –36,	-216		- 466	556	5,	10, 20	,	.160	
$2,\frac{1}{2},\frac{1}{8},$		1			9, -3	3, 1,	1			27,	$\frac{1}{3,\frac{1}{2},}$	2	1	
2.8	5	12					81				3	2	187	
1 2 4	655	526		10,10	0 1000)	10000	100	0 :	3, 0.03, 0.0	03 (0000	000000	13
1, 2, 1,		330		10, 10	0,1000	,	10000	700		3, 0.00, 0.0	, ·	310000		