Arithmetic Progressions: Worksheet -3

1. If $t_n = 0$ in the A.P. 84, 80, 76, then $n = [$							
	a) 20	b) 21	c) 22	d) 25			
2.	2. Which term of the sequence 24, 23 $\frac{1}{4}$, 22 $\frac{1}{2}$ is the first						
	negative?				[]	
	a) 30 th	b) 32 nd	c) 33rd	d) 34	th		
3. If the 10th and 18th terms of A.P. are 40 and 72 respectively, then the							
	26 th term				L]	
	a) 100	b) 104	c) 110	d) 11	5		
4. The sum of 4th and 8th terms of an A.P. is 24 and the sum of 6th and							
	10 th terms is 34 the	en the <mark>comm</mark> on d	ifference is		[1	
Ì	a) $\frac{2}{5}$	b) $\frac{5}{2}$	c) $\frac{4}{5}$	d) $\frac{9}{2}$			
5.	5. If the angles of a quadrilateral are in A.P. with common difference is						
10°, then the quadrilateral is []							
	a) rectangle		b) parallelogram				
	c) cyclic quadrilate	ral	d) trapezium				
6. The sum of all the odd numbers between 100 and 200 is []							
	a) 7200	b) 7500	c) 770	d) 79	00		
7. The sum of all those integers between 100 and 800 each of which on							
	division by 16 leave	es the remainder	7 is		[]	
г	a) 19866	b) 19886	c) 19866	d) 19	668		
8. If the sum of n, 2n and 3n terms of an A.P. are S_1,S_2,S_3 respectively							
	then $S_2 - S_1 =$				[]	
	a) S ₃	b) 3 S ₃	c) $\frac{S_3}{3}$	d) S ₃	- S ₂		

9. If a, b, c are in A.P. then 4(a - b) (b - c) =

- a) $(a + c)^2$

- b) $(a b)^2$ c) $(a c)^2$ d) $(a + b + c)^2$
- 10. If there are n AM's between 3 and 17 and the ratio of the last mean to the first mean is 3:1 then n =
 - a) 3
- b) 4

c) 5

d) 6

