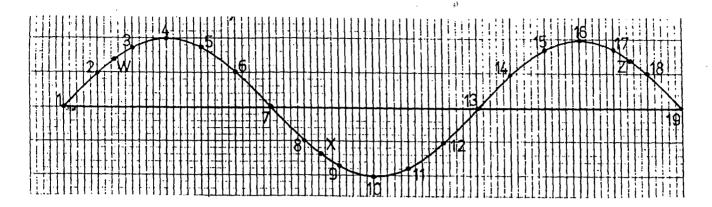
MELATEONSHIPS

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WAVES - 3

This test is designed to measure your ability to determine the phase difference between particles in radian and period measure. For each question write the correct answer in the space provided. The questions below refer to this diagram which shows several particles (1-19) on a wave motion.



Set 1 For each question, determine the phase difference (in radian and period measure) between the particles indicated.

Q	Particles	Radian Measure	Period Measure
1	l and 4		$\frac{\mathtt{T}}{4}$
2	7 and 13		·
3	2 and 6	$\frac{2\pi}{3}$	
4	3 and 11		
5	9 and 16		·
6	1 and 13		
7	W and X		
8	X and Z		

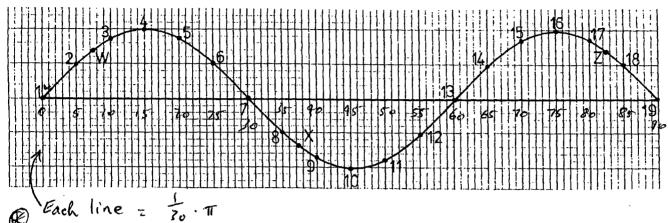
Set 2 For each question identify a particle which has a
difference in phase from particle 1 of the amount stated.

Q	Difference in Phase From Particle 1	Particle
9	$\frac{\pi}{2}$	
10	π	
11	$\frac{4\pi}{3}$	
12	2π	
13	$\frac{\mathrm{T}}{4}$	
14	$\frac{7\text{T}}{12}$	
15	5 <u>T</u>	The state of the s
16	0	

WAVES - 3

R. Kureny

This test is designed to measure your ability to determine the phase difference between particles in radian and period measure. For each question write the correct answer in the space provided. The questions below refer to this diagram which shows several particles (1-19) on a wave motion.



Set 1 For each question, determine the phase difference (in radian and period measure) between the particles indicated.

				1 feriod = 12 cm
Q	Particles	Radian Measure	Period Measure	,
1	l and 4	7/2	$\frac{\mathrm{T}}{4}$	
2	7 and 13	TT	<u> </u>	
3	2 and 6	<u>2π</u> 3	73 €	- 3 of full ferrod - 32 of full ferrod - 72 of full ferrod etc.
4	3 and 11	4.17	25 6	- 8 of full ferried
5	9 and 16	芝	7 <u>1</u> 2 €	- 12 of full ferred
6	1 and 13	211 (0)	T AT (0)	etc.
7	W and X	#	1/2	
8	X and Z	3T/2	3.7/4	

Set 2 For each question identify a particle which has a
difference in phase from particle 1 of the amount stated.

Q	Difference in Phase From Particle l	Particle
9	$\frac{\pi}{2}$	4-
10	π	7
11	$\frac{4\pi}{3}$	9
12	2π	13
13	$\frac{\mathrm{T}}{4}$	4
14	$\frac{7\text{T}}{12}$	8
15	<u>5T</u> 6	11
16	0	13