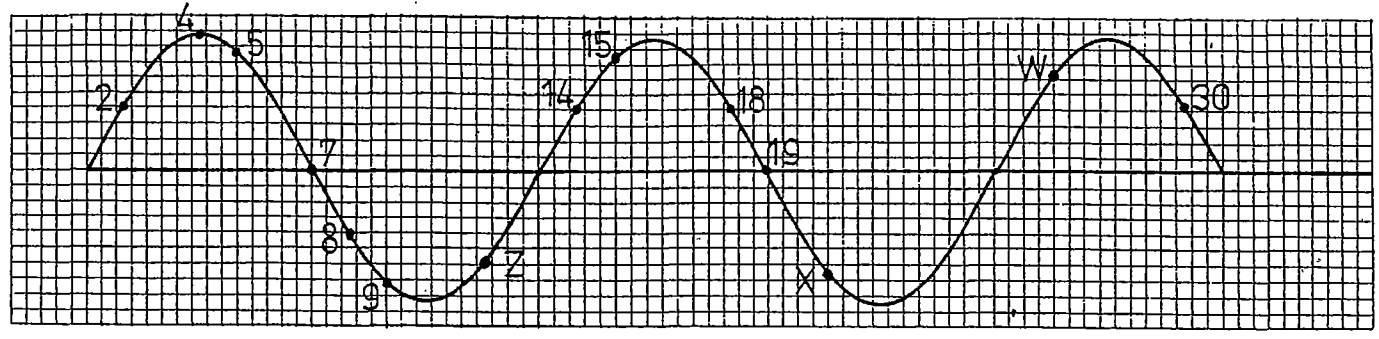


WAVES - 1

This test is designed to measure your ability to determine the phase difference between particles in radian measure. For each question select the correct answer and write its letter (A, B, C or D) on your answer sheet.

The questions refer to the (wave/diagram) below:



SET 1

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

Q	PARTICLES	PHASE DIFFERENCE (RADIAN)			
		A	B	C	D
1	2 and 5	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	2π
2	8 and 14	0	$\frac{\pi}{4}$	$\frac{\pi}{2}$	π
3	14 and 18	$\frac{2\pi}{3}$	π	2π	3π
4	9 and 15	$\frac{\pi}{6}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	π
5	4 and 9	$\frac{5\pi}{6}$	$\frac{\pi}{3}$	$\frac{3\pi}{2}$	4π
6	7 and 19	$\frac{\pi}{4}$	$\frac{\pi}{2}$	π	2π
7	18 and 30	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$
8	2 and 18	$\frac{3\pi}{2}$	$\frac{4\pi}{3}$	$\frac{8\pi}{3}$	3π
9	W and X	0	π	$\frac{3\pi}{2}$	$\frac{7\pi}{6}$
10	X and Z	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	$\frac{3\pi}{4}$

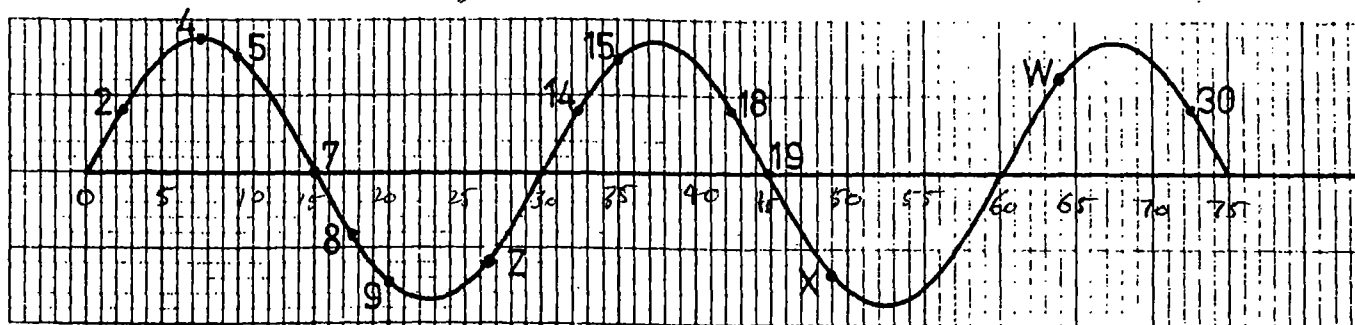
R. K. Meny

WAVES - 1

This test is designed to measure your ability to determine the phase difference between particles in radian measure. For each question select the correct answer and write its letter (A, B, C or D) on your answer sheet.

The questions refer to the (wave/diagram) below:

⊗ Either count backwards from second pt. OR use subtraction $10 - 2\frac{1}{2} =$



⊗ Each line = $\frac{\pi}{15} = \frac{1}{15} \cdot \pi$

SET 1

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

Q	PARTICLES	PHASE DIFFERENCE (RADIAN)			
		A	B	C	D
1	2 and 5	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	2π
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3	14 and 18	$\frac{2\pi}{3}$	π	2π	3π
4	9 and 15	$\frac{\pi}{6}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	π
5	4 and 9	$\frac{5\pi}{6}$	$\frac{\pi}{3}$	$\frac{3\pi}{2}$	4π
6	7 and 19	$\frac{\pi}{4}$	$\frac{\pi}{2}$	π	2π
7	18 and 30	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$
8	2 and 18	$\frac{3\pi}{2}$	$\frac{4\pi}{3}$	$\frac{8\pi}{3}$	3π
9	W and X	0	π	$\frac{3\pi}{2}$	$\frac{7\pi}{6}$
10	X and Z	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	$\frac{3\pi}{4}$

$\frac{8\frac{1}{2}}{15}$
 $32.5 - 17$
 $42.5 - 32$
 2π

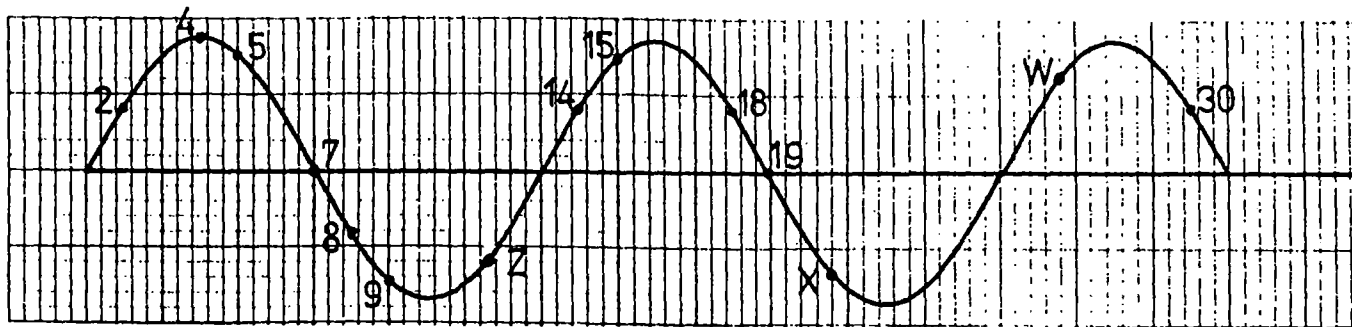


PHASE
RELATIONSHIPS

WAVES - 1

This test is designed to measure your ability to determine the phase difference between particles in radian measure. For each question select the correct answer and write its letter (A, B, C or D) on your answer sheet.

The questions refer to the (wave/diagram) below:



SET 1

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

Q	PARTICLES	PHASE DIFFERENCE (RADIAN)			
		A	B	C	D
1	2 and 5	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{3\pi}{2}$	2π
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3	14 and 18	$\frac{2\pi}{3}$	π	2π	3π
4	9 and 15	$\frac{\pi}{6}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	π
5	4 and 9	$\frac{5\pi}{6}$	$\frac{\pi}{3}$	$\frac{3\pi}{2}$	4π
6	7 and 19	$\frac{\pi}{4}$	$\frac{\pi}{2}$	π	2π
7	18 and 30	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$
8	2 and 18	$\frac{3\pi}{2}$	$\frac{4\pi}{3}$	$\frac{8\pi}{3}$	3π
9	W and X	0	π	$\frac{3\pi}{2}$	$\frac{7\pi}{6}$
10	X and Z	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	$\frac{3\pi}{4}$