

the second se		,south, find its momentum	d-20000kgm/s
a-1246.89kgm/s	b-10500kgm/s	c-12638.88kgmls	
the wave	b-period time	um of an element of the med	d-frequency
a-wavelength	b-period time	c-ampintude -	
5-60 kg archer stands	s at rest on frictionless ic e archer move on the ice	e and fires a 0.50kg arrow e after firing the arrow?	norizontally in Soul's at
with what velocity th	e mener more en me		d4.2m/s

KINGDOM OF SAUDI ARABIA Ministry Of Higher Education Princess Nora Bint Abdul Rahman University (any francisco figuring the same

المملجّ العربَيَّة السَّعُوديَّة وزَارَة التَعلِيم العَالِي جامعة الأميرة نورة بنت عبد الرحمن كلية العلوم

16

Science College

2. Using the sketch below:



a. Draw the image of the object () formed by a concave mirror.

b. Is the image virtual or real.

real

c. Is the image up right or inverted.

inverted

d. Is the image smaller or larger or the same size of the object.

Smaller

e. If the object is 12 cm from mirror and the mirror focal length f = 5cm, find <u>the image distance</u> (q) from mirror. (don't forget the unit)

P=12, F=+5, 4= 2? = 7 = 1 -> 1 124 95 1 3/4 55 WI Municip 12 60 = 0.12



	10 1-1-1				and the second se			
	Q	1	2		Total			
	Grade	/12	/3		/15		[12]	
Q1: Choose the corn	ect answer and write your a	inswer in the	table below.	9	10	11	12	
Q I	2 3 4 5	6	1 0				100 ET	
		Lange and the second						
1 - The	measures pressure in	an enclosed	l fluid.					
a- Manometer	• b- Thermometer	c- Bai	c- Barometer			d- none of them		
2- Pascal's principl	a states that				and the			
2- Pascar s principi			And a start of	1.12.123				
a- $A_1 V_1 = A_2 V_2$		$P = \frac{1}{A_1} = \frac{1}{A_2}$		d-P	$d-P = \rho g h$			
3- A325kg motorcy	cle is moving at 140km/h	, south, find	l its moment	um	1100	0000kg	mla	
a-1246.89kgm/s	b-10500kgm/s	c-126	C-12050.0016		111111111111	the grand fairs and		
4-The maximum dis	placement from equilibr	ium of an el	ement of the	e mediu	im is c	alled u	e0	
a wavelength	b-period time	c-am	plitude			d-frequency		
5-60 kg archer stand	s at rest on frictionless is	ce and fires	a 0.50kg ar	row ho	rizonta	ally in t	50m/s at	
with what velocity th	he archer move on the ic	e after firin	g the arrow	?				
a 1 2m/s	b-0.42m/s	c0	c0.42m/s d-		14.2m/s			
C The movelength of	the tuning fork of frequ	iency 512 H	Iz which is	set to v	ibrate	the ve	locity of	
sound in air is 320m/		0.10	6 m		d	-6.25m	1	
-0.625m	b-0.625mm	States and second	c-1.6 m		terral states and the second states and			
the speed in m/s of	the waves of frequency	125MHz a	and the way	velengt	h of 2	.40m is	S	
	the second s					$d-300 \times 10^{8}$		
3×10^8	$b-30 \times 10^{8}$	C-0.	$c-0.3 \times 10^{8}$		u-300 × 10			
An antinode occurs	s when the string vibra	ates with th	ie					
				1	d-zero amplitud			
argest amplitude	b-smallest amplitud	de c-cc	c-constant amplitude			d-zero ampricad		
		1				-	- 11 -	
sinusoidal wave of	f wave number k=0.2r	ad/cm and	an angula	r frequ	iency	$\omega = 5$	Sraa/s u	
string to the right	with an amplitude of A	A=20cm a	nd a phase	const	ant of	$\varphi = \tau$	1/2	
i sumg to me right	in an ampricade or i		dal mana f	imatio	-	Rest		
s wave can be repre	sented by the following	ng sinusoi	ual wave I	unctio	11	I days	20cos(55f +	
$20sin(0.2t + 55x - \pi/2)$	b-y = 20sin(0.2x - 55t + 7)	(/2) · ·· y =	= 20cos(0.2x +	- 551)	1	d- y =	20003(00) +	
The distance the wa	we travels between su	uccessive	crests					
	1				2	d-t	wo	
arter wavelength	b- one wavelength	(1) c-1	c- half wavelength $\left(\frac{\lambda}{2}\right)$		(-)	u-t		
					2	wavelengths		
						11/0	velenothe	
	•					wa	velengths	

Q3 $\mathbf{I} = P/A$ P=IA DELL

Q2: 1009 = 0.1 Kg J3 1000 10 cm = 0.1 to Et is m= oil x = 0.1 K= 10 21 des w = JEs = Jio = 10 radis T = 2 T = Z T = [75] 우 = 1 = 즉 HR 1:1 -6 = 7

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	Class:		Student ID:				
	Q	1	2	Total			
	Grade	/12	/3	/15			
: Choose the correct				0 10 1	[12]		
Q 1 2	3 4	5 6	7 8	9 10 1	1 12		
A							
1. The fact that a wa	ter drop is spherical is	s described in	terms of				
a. Gravitation.	b. Archimedes' principle.	c. Su	face tension.	d. Pascal's	d. Pascal's principle.		
2. The linear momen	and the second se						
a. kg.m	b. kg/m	. kg/m c. kg.		d. N/s	d. N/s		
3. The ideal fluids is	k						
a. Non viscous	• b. viscous	cohes	wn for weak ive forces.	d. none of mentioned			
	e is equal to the weigh	it of the replac	ed liquid or gas"	is the law of:			
a. Archimedes .	b. Pascal.	c. Ber	noulli.	d. Torricelli	d. Torricelli.		
momentum compare		e equal kinetic	energy. How do	the magnitudes	of their		
a. <i>p1</i> < <i>p2</i>	b. <i>p1</i> = <i>p2</i>	c. p1 >	> p2	d. not enough information is given			
6. (32 Pascal) is equ	al to				•		
a. 3.2 N	b. 32 N \ m ²	c. 32	$N \setminus s^2$	d. 0.32 dyne			
7. Which of the range	s below human ear can	n hear sound?					
a. in the audible range	 b. below the audib range . 	ole c. abov range.		d. none of them			
through the same regio	f time there is two way on of space, the interfe	ves of the sam	e amplitude and	frequency were ces:	traveling		
a. destructive interference.	b. beat.	c. Dop	pler's Effect.	d. constructi interference	-		
9. In standing waves at	the point of node, the	e amplitude (A	A) of wave is:				