Question 2

Not yet answered

Marked out of 1

P Flag question

Given **M** = 6 **i** + 2 **j** - **k** and **N** = 2 **i** + **j**+ 3 **k**, calculate the magnitude of **M** x **N**.

- 0 40
- 0 28
- O 21
- 0 47
- 0 34

Finish attempt ...

Previous activity

- ch.4 Two Dimensional Motion





elect one: 0 -120 J

O -160 J

C 0.08- O

O -40.0 J

A 800 kg car is going around a curve with a radius of 120 m that is banked at an angle of 25.0° with a speed of 30.0 m/s. The coefficient of static friction between the car and the road is 0.300. What is the force exerted by friction on the car?

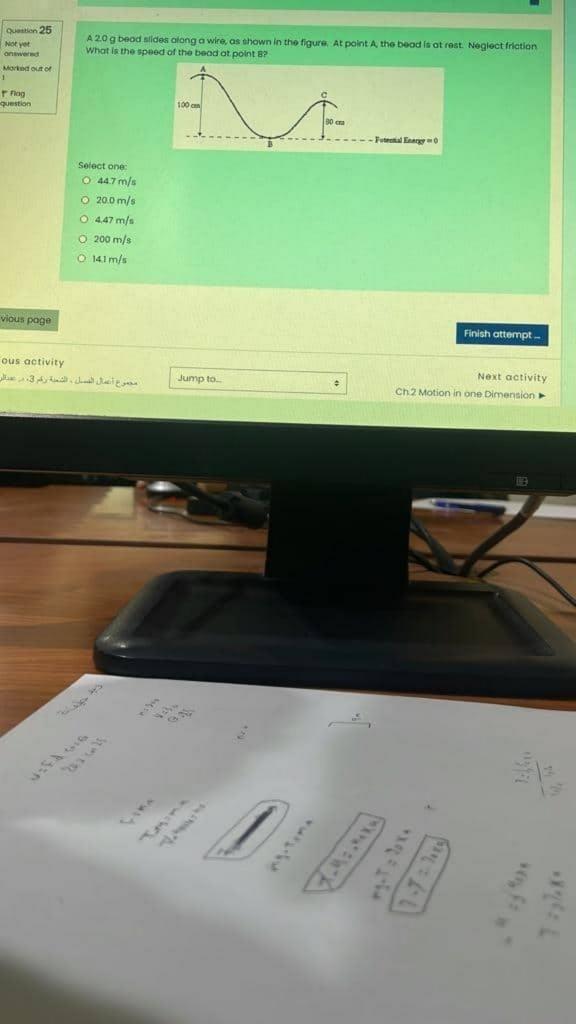
1/9

Select one:

O 1831 N

O 1359 N





ation 3 end out of

og: stion

stion 4 wer saved ked out of

log

One way to specify a vector in a si

Select one:

- give one of its components.
- give its magnitude and the quadrant
- None of the other choices is correct.
- O give its magnitude.
- O give its magnitude and the angle θ it makes with the positive x-axis.

What force is needed to make an object move in a circle?

Select one:

O static friction













Not yet answered

Marked out of 1.000

Time left 0:30:09

Flag question

The height of a helicopter above the ground is given by $h = 3.0 t^2$, where h is in meters and t is in seconds. After 4.0 s, the helicopter releases a small mailbag. How long after its release does the mailbag reach the ground?



$$(g=10 \text{ m/s}^2)$$

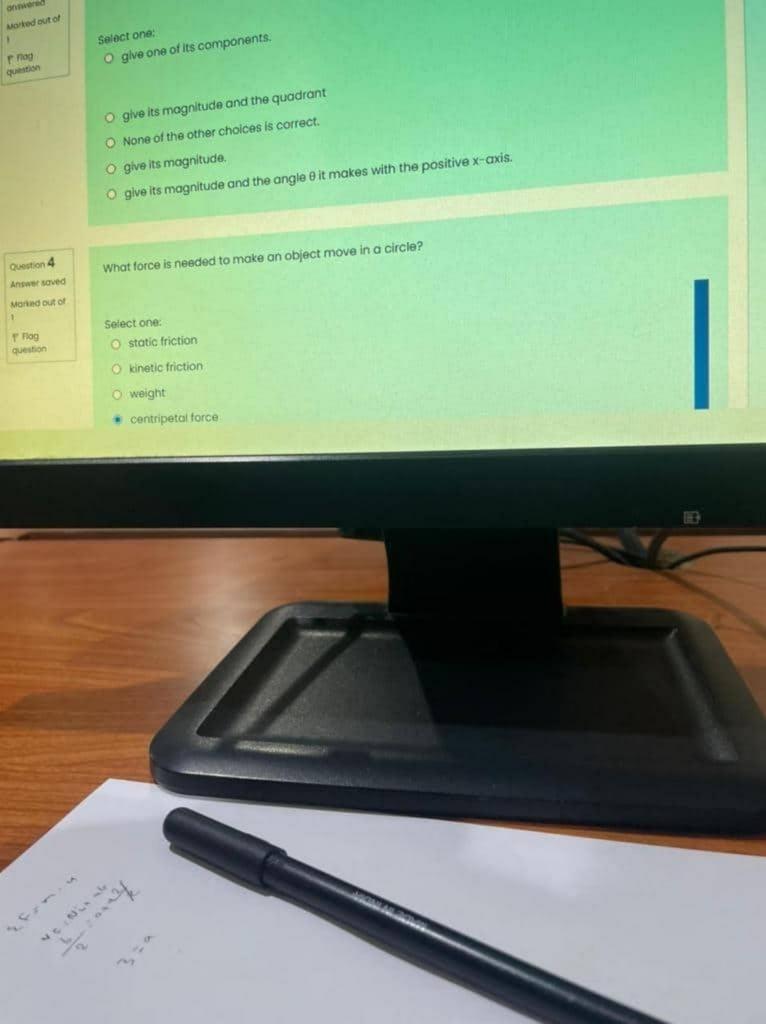
- O 6.3 s
- 9.5 s
- O 7.9 s
- O 4.7 s
- → 3.1 s

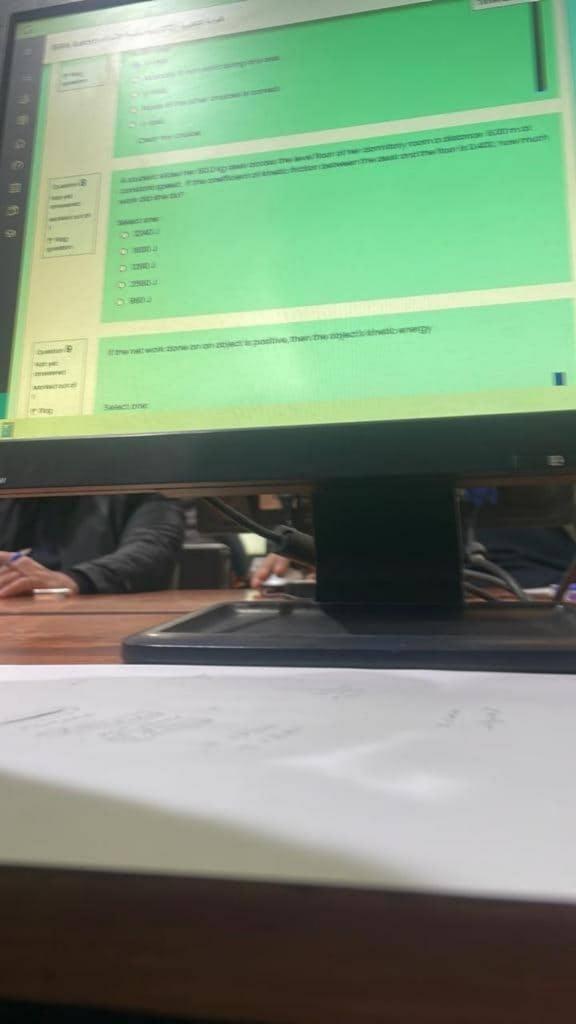
Question 2

Not yet answered

Marked out of 1.000

Flag question











elearn.iu.edu.jo/mod/quiz/a















-3 J

سؤال 10

غير مجاب عليه بعد الدرجة من 1.0000

٣ علم هذا السؤال

A 2.0-kg block initially at rest is pulled to the right along a horizontal, frictionless surface by a constant horizontal force of 15 N. The block's speed after it has moved 5.0 m

اخترأحد الخيارات

m/s 10 0

m/s8 0

m/s 7 0

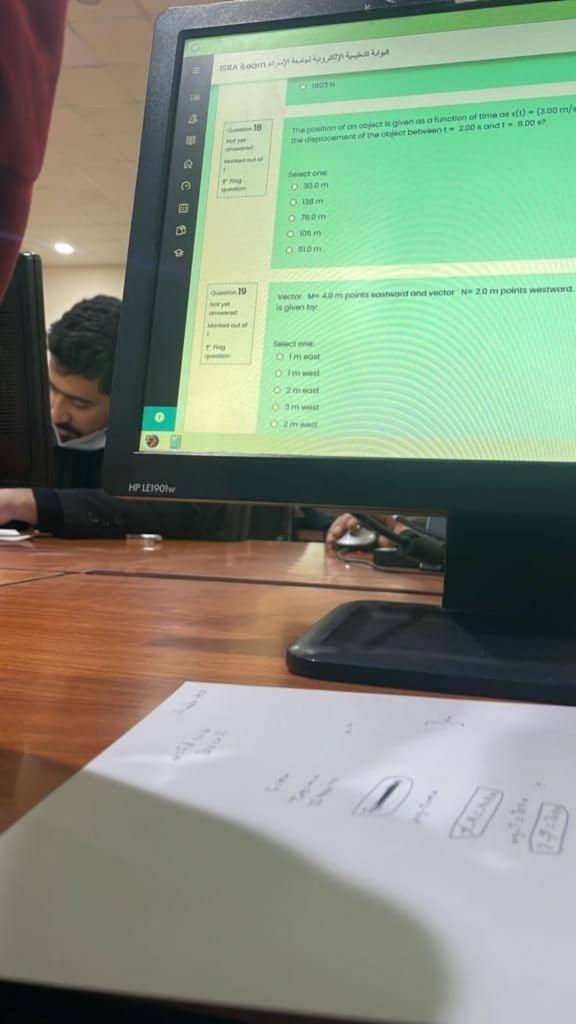
m/s 15 0

m/s 8.7 O

الصفحة التالية

الصفحة السابقة

100N / 3 20 40 158 (1.1)37° 100 COS 3 X MN = 100 COSTZ 40 x a = 100 x 4 a = 80 = 2 m/52 * * NISYENS n = ag - by = 40+9,8-60,182 n = 3 25 18 N

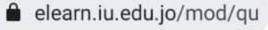






















سؤال العلم 🌱

يسحب طالب صندوقًا من الكتب على أرضية أفقية ناعمة بقوة 100 نيوتن في اتجاه 37 ^{درجة} فوق الأفقى. إذا كانت كتلة الصندوق والكتب 60.0 كجم ، فما هي القوة الطبيعية المؤثرة على الصندوق؟ (j = 9.8 a / c 2)

شمال 488 🕥

:اختر واحدا

- شمال 528 🔘
- شمال 648 (
- شمال 332 (

السؤال 2 لم تجب بعد

تم تمييزه من 1

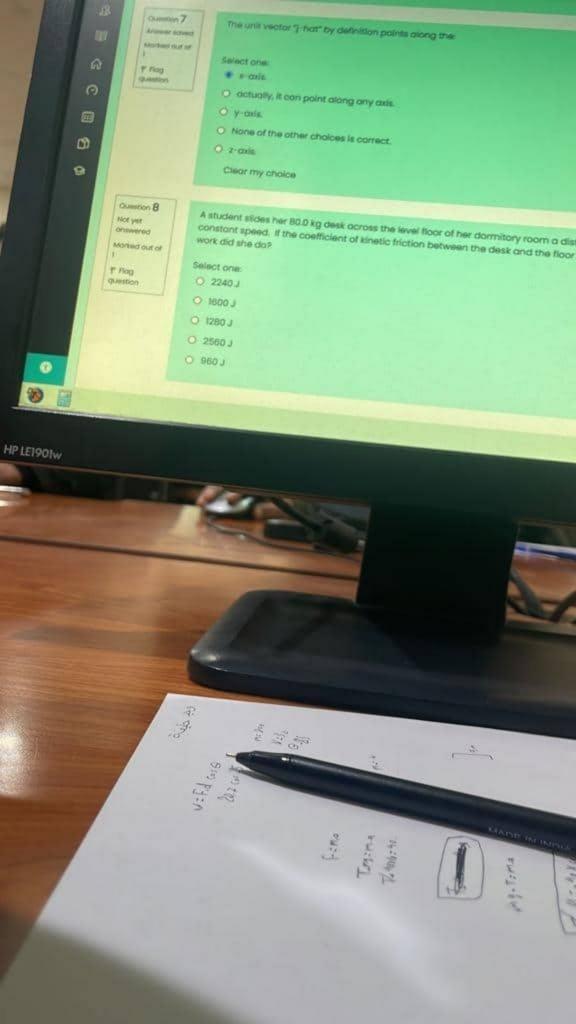


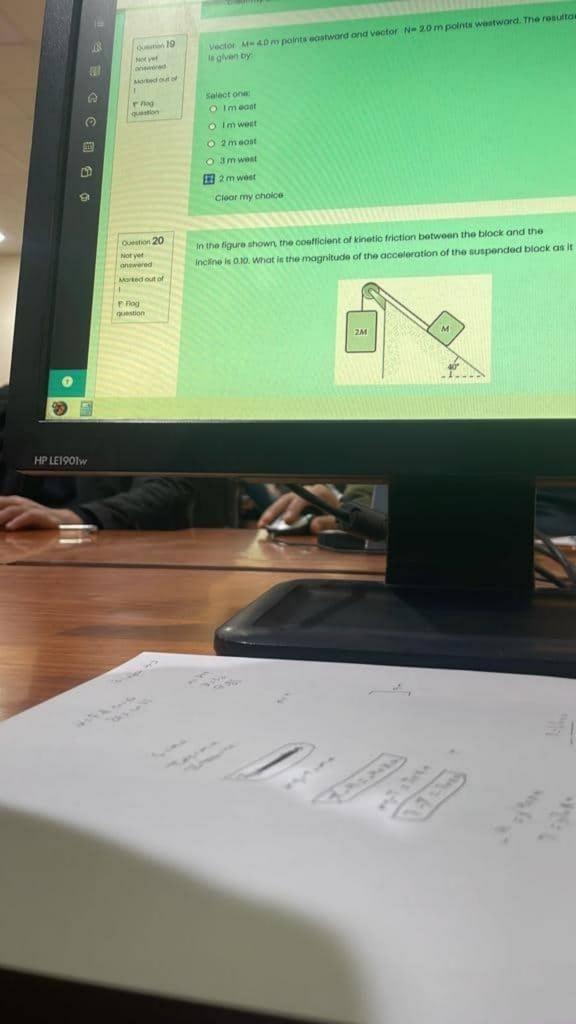
























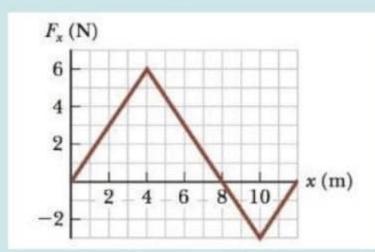
سؤال 9

غير مجاب عليه بعد

الدرجة من 1.0000

🎖 علّم هذا السؤال

A force acting on a particle varies with x as shown in the figure. Calculate the work done by the force on the particle as it moves from x = 8.0 to x = 10.0 m.



6 J

5 J

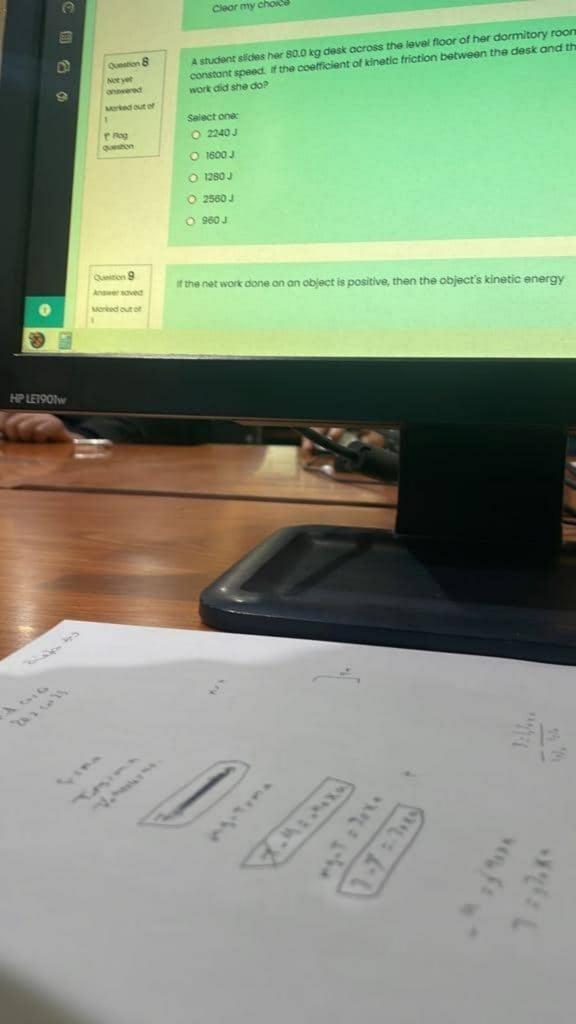
3 J

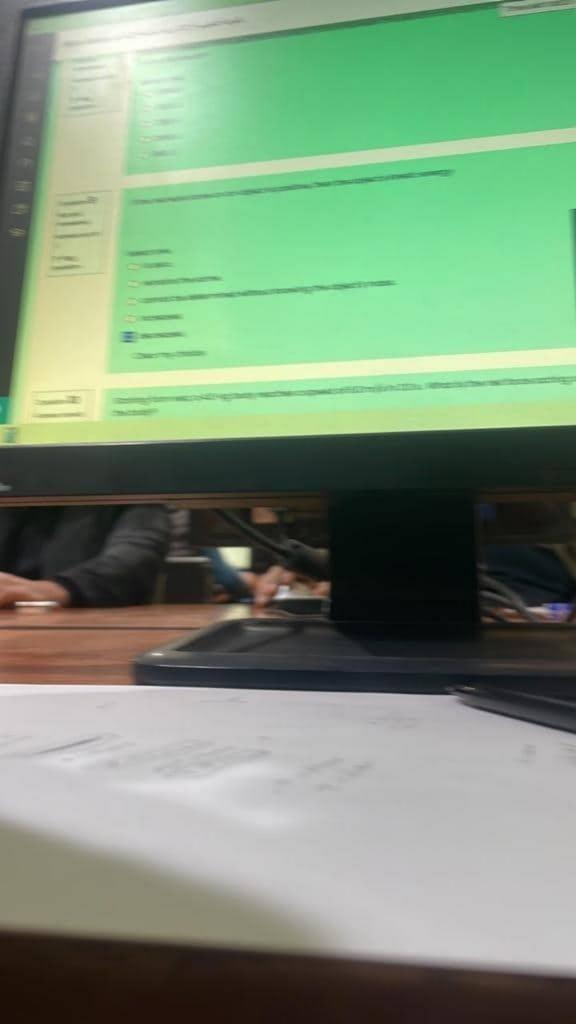
there is no answer

-3 J

سؤال 10

<





Using the definition of the scalar product, find the angles between $\mathbf{A} = 3\mathbf{i} + 2\mathbf{j}$ and $\mathbf{B} = 7\mathbf{i} - 4\mathbf{k}$

- O 42°
- O 46°
- O 49°
- O 44°
- O 54°

Question 2

Not yet answered

Marked out of 1

Flag question

Given **M** = 6 **i** + 2 **j** - **k** and **N** = 2 **i** + **j**+ 3 **k**, calculate

the magnitude of M x N





elearn.iu.edu.jo/mod/quiz/at















Question 1

Not yet answered

Marked out of 1.000

Flag question

A freely falling object requires 2.00 s to travel the last 50.0 m before it hits the ground. From what height above the ground did it fall?

$$(g=10 \text{ m/s}^2)$$

- 61 m
- 0 160 m
- O 226 m
- 65 m
- 305 m

Question 2

Not yet answered

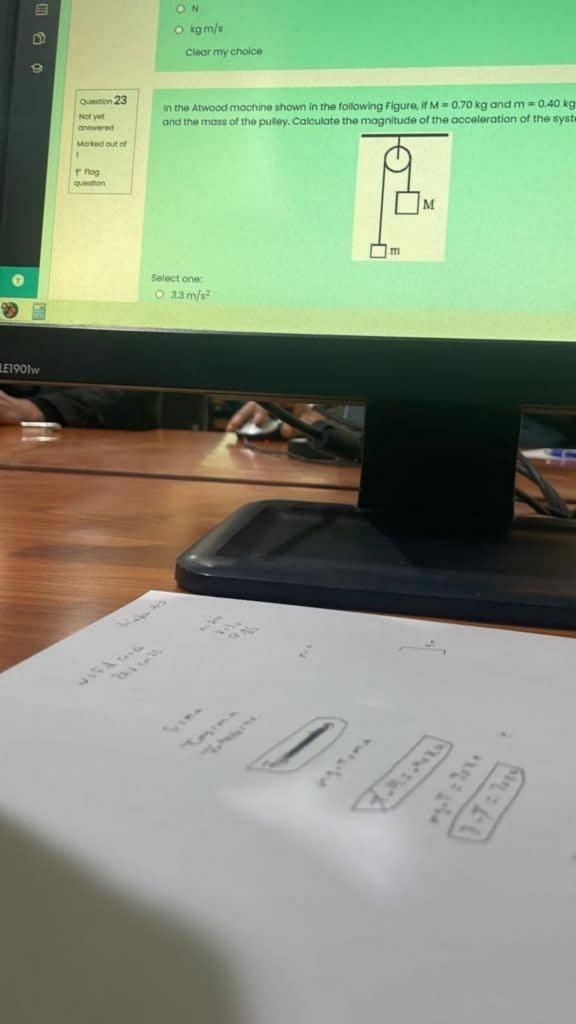
Marked out of 1.000

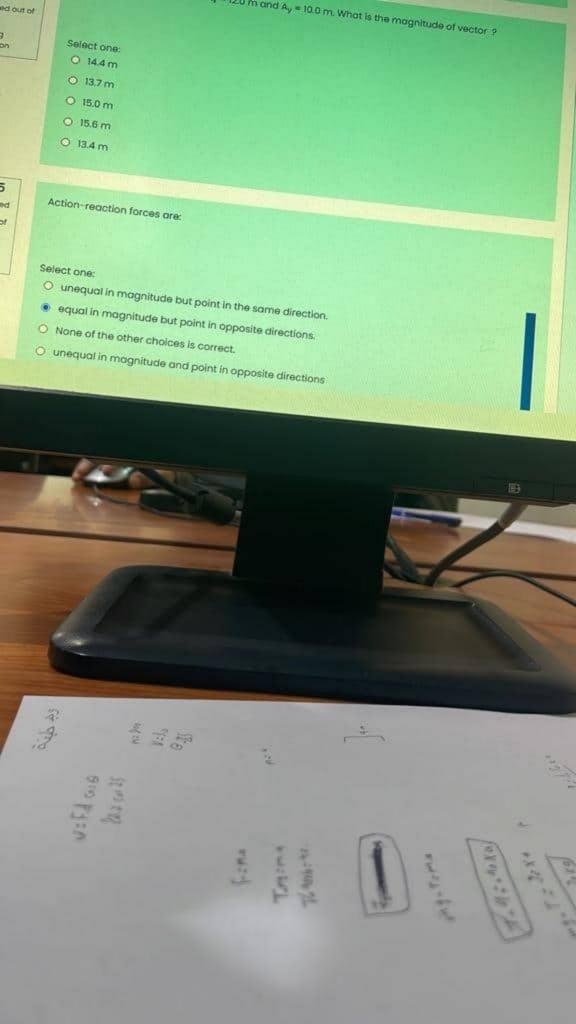
Flag question

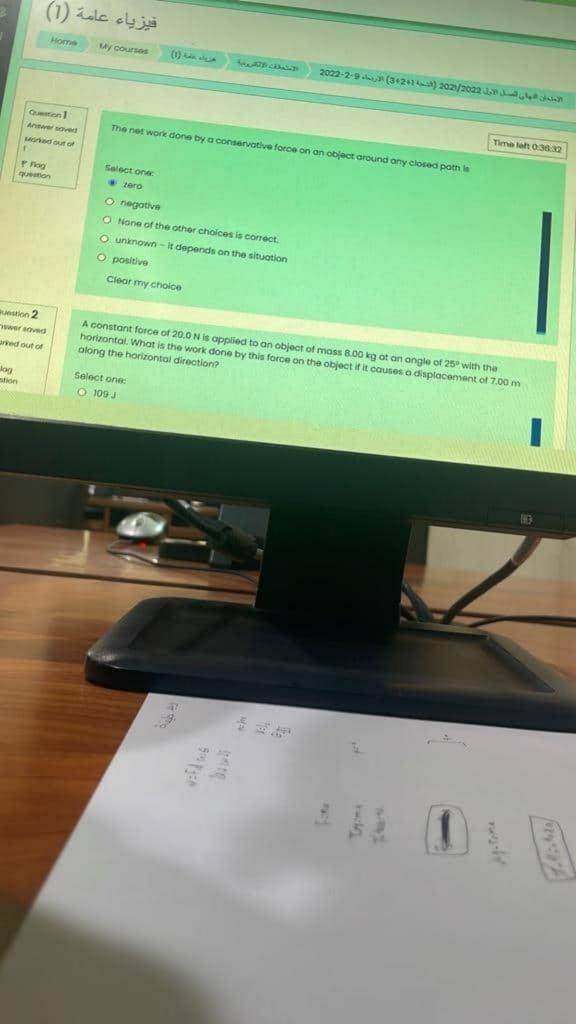




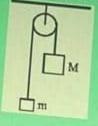








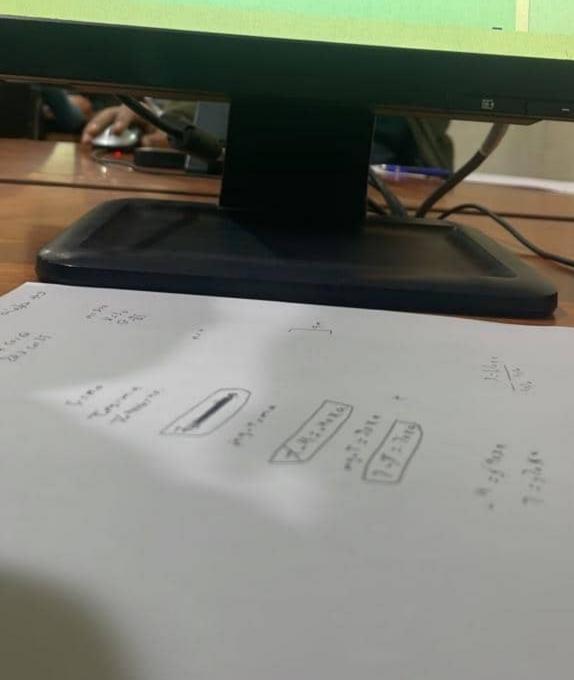
tor the pulley. Calculate the magnitude of the acceleration of the system.



Select one:

- O 3.3 m/s²
- 0 1.1 m/s²
- 0 2.7 m/s²
- 0 3.8 m/s²
- 0 2.0 m/s²

A person carries a mass of 10 kg and walks along the +x-axis for a distance of 100m with a constant velocity of 2 m/s. What is the work done by this person?



Question 1

Not yet answered

Marked out of 1.00

Flag question

A ball was thrown upward with an initial velocity of 30 m/s, after what time (in s) does it reach the maximum height? Note: Consider g = 10 m/s²

Select one:

- 3
- 0.33
- 0 2
- 0 2.5
- 0 1.5

Question 2

Not yet answered

Marked out of 1.00

Flag question

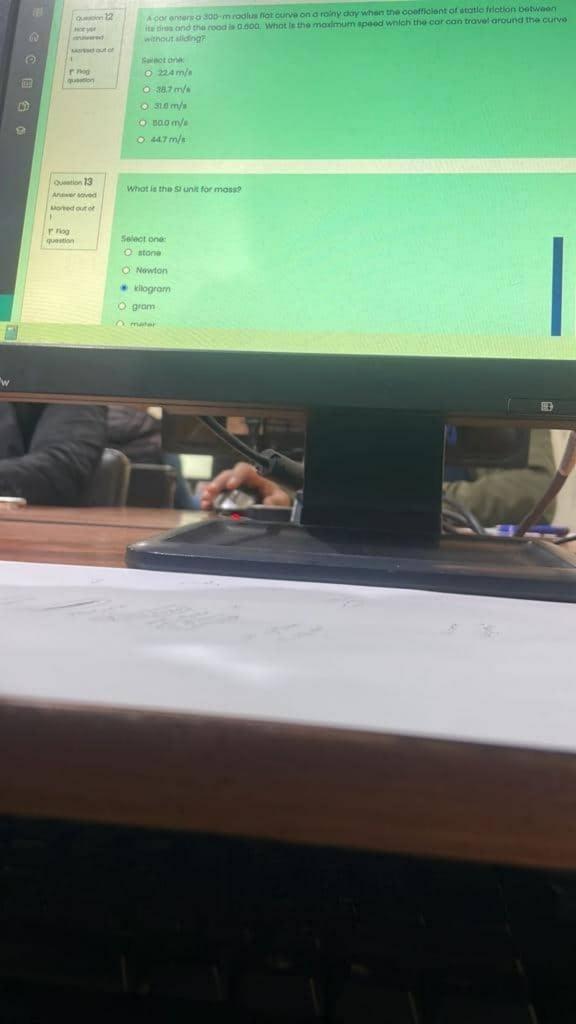
A particle moves with constant acceleration on the x-axis. If its initial velocity is 10 m/s, and its















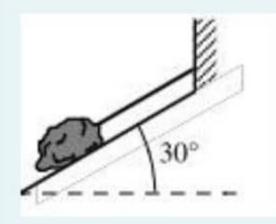






A rope as shown holds a 40 kg rock at rest on a frictionless inclined plane as shown. Determine the tension in the rope.

Note: $g=9.80 \text{ m/s}^2$



Select one:

- O 8.5 N
- 9.8 N
- 339.5 N
- O 392 N
- O 196 N



















السؤال 2

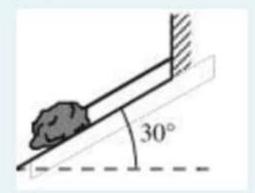
لم تجب بعد

تم تمييزه من آ

سؤال العلم 🌱

الحبل كما هو موضح يحمل صخرة بوزن 25 كجم عند السكون على مستوى مائل عديم الاحتكاك كما هو موضح. أوجد قوة الشد في الحبل.

ملحوظة: ز = 9.80 م / ث ²



:اختر واحدا

- شمال 9.8 (
- شمال 8.5)
- شمال 245)
- شمال 212
- شمال 122.5

... محاولة الإنهاء

























Marked out of 1

Flag question

A student pulls a box of books on a smooth horizontal floor with a force of 100 N in a direction of 37° above the horizontal. If the mass of the box and the books is 40.0 kg, what is the normal force on the box? $(g=9.8 \text{ m/s}^2)$

- Select one: O 392 N
 - O 332 N
 - O 292 N
 - O 312 N

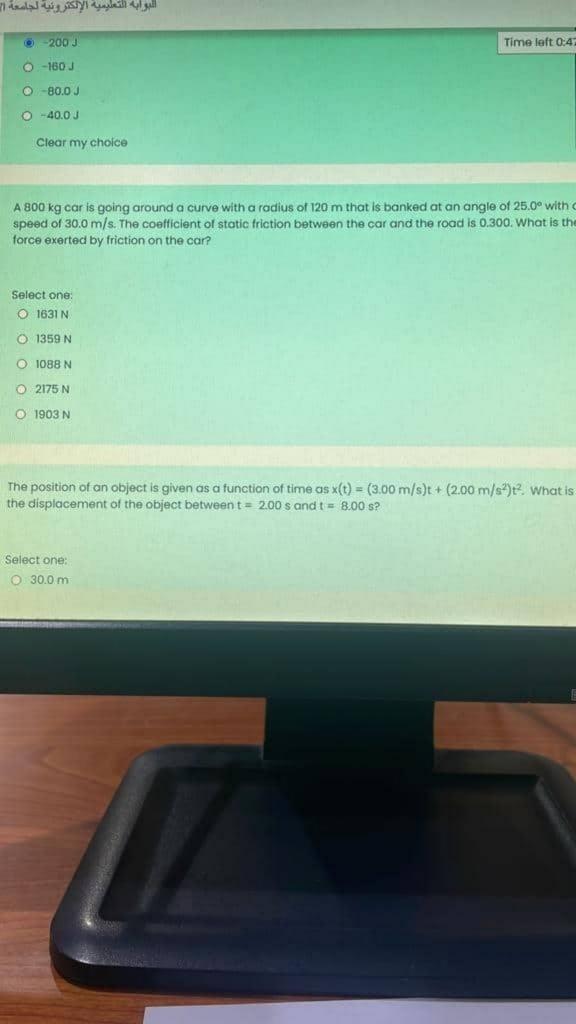
Question 2

Not yet answered

Marked out of 1

Flag question

A rope as shown holds a 40 kg



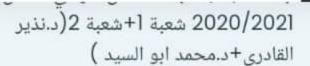
what is the speed of the bead at point B? 100 cm - Potential Energy = 0 lect one: 44.7 m/s 20.0 m/s 4.47 m/s 200 m/s 14.1 m/s lear my choice Finish attempt ... Next activity N. See











سؤال 1

غير مجاب عليه بعد

الدرجة من 1.0000

ا علم هذا السؤال

An automobile moving along a straight track changes its velocity from 40 m/s to 80 m/s in a distance of 200 m. What is the (constant) acceleration of the automobile ?during this time

اخترأحد الخيارات

m/s 12 0

m/s 0.20

m/s 8.0 O

m/s 6.9 O

m/s 9.6 0

سؤال 2

غير مجاب عليه بعد







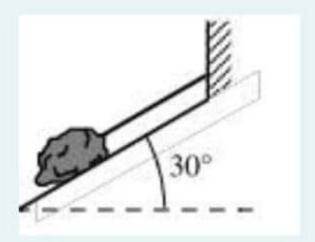




سوال العلم ٣

الحبل كما هو موضح يحمل صخرة بوزن 25 كجم عند السكون على مستوى مائل عديم الاحتكاك كما هو موضح. أوجد قوة الشد في الحبل

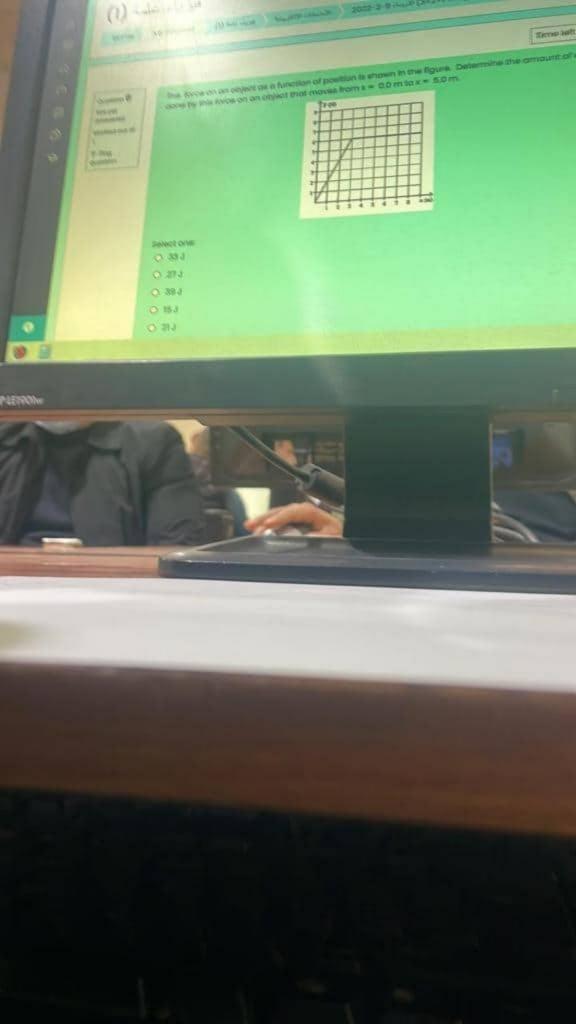
ملحوظة: ز = 9.80 م / ث²



:اختر واحدا

- شمال 212 🔵
- شمال 9.8 🔘
- شمال 8.5
- شمال 122.5 🔘
- شمال 245 🔘

m zero per dround any closed pain is Time left t negative None of the other choices is correct. unknown – it depends on the situation O positive Clear my choice A constant force of 20.0 N is applied to an object of mass 8.00 kg at an angle of 25° with the horizontal. What is the work done by this force on the object if it causes a displacement of 7.00 m along the horizontal direction? Select one: O 109 J O 72.5 J 0 90.6 .1 O 54.4 J ● 127 J Clear my choice 15 Per 10 Per 10















· 🖸 🖸 🖬 1:11



واجب بيتى يضاف الى الامتحان النصفى (شعبة1+2+3)

Question 1

Not yet answered

Marked out of 1

F Flag question

A student pulls a box of books on a smooth horizontal floor with a force of 100 N in a direction of 37° above the horizontal. If the mass of the box and the books is 40.0 kg, what is the normal force on the box?

 $(g=9.8 \text{ m/s}^2)$

Select one:

- O 332 N
- O 292 N
- O 392 N
- O 312 N

Ouestion 2

Not yet answered

Marked out of 1

F Flag question

A rope as shown holds a 25 kg rock at rest on a frictionless inclined plane as shown. Determine the tension in the rope.

Note: g=9.80 m/s2



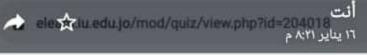
























الامتحانات الالكترونية

واجب بيتي يضاف الى الامتحان النصفى (شعبة1+2+3)

واجب بيتي يضاف الى الامتحان النصفي (شعبة1+2+3)

Opened: Sunday, 16 January 2022, 8:00 PM

Closes: Sunday, 16 January 2022, 10:00 PM

Password: 1122

Attempts allowed: 1

To attempt this quiz you need to know the quiz password

Summary of your previous attempts

State	Marks /2	Grade / 10	Review
Finished	2	10	
Submitted Sunday, 16			
January 2022, 8:21 PM			

Your final grade for this quiz is 10/10.

No more attempts are allowed

Back to the course



















Question 2

Not yet answered

Marked out of 1

P Flag question

At t = 0, a particle leaves the origin with a velocity of 12 m/s in the positive y-direction and moves in the xy plane with a constant acceleration of (2 i-4 i) m/s2. At the instant the x coordinate of the particle is 16 m, what is the speed of the particle?

- 8.94 m/s
- 9.43 m/s
- 0 10.0 m/s
- 10.6 m/s
- 0 8.54 m/s

Finish attempt ...

















فيزياء عامة (1)

فيزياء عامة (١) دوراتي مسكن

الامتحانات الالكترونية

.واجب بيتي يضاف الى الامتحان النصفي (شعبة 1 + 2 + 3

السؤال 1

لم تجب بعد

تم تعييزه من 1

سؤال العلم ؟

يسحب طالب صندوقًا من الكتب على أرضية أفقية ناعمة بقوة 100 نيوتن في اتجاه 37 أبرجة فوق الأفقى، إذا كانت كتلة الصندوق والكتب 40.0 كجم ، فما هي القوة الطبيعية المؤثرة على الصندوق؟ (ز = 9.8 م / ث 2)

اختر واحدا

- شمال 332 (
- شمال 292 🕥
- شمال 392 ن
- شمال 312 🕥

السؤال 2

لم تجب بعد

تم تمييزه من 1

سؤال العلم ٣





العربية

الإنجليزية













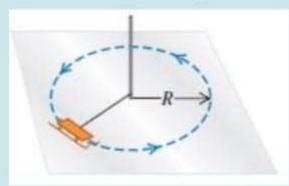




سؤال 8 غير مجاب عليه بعد الدرجة من 1.0000 الدرجة مذا السؤال

A sled with a mass of 25.0 kg rests on a horizontal sheet of essentially frictionless ice. It is attached by a 3.00-m rope to a post set in the ice.

Once given a push, the sled revolves uniformly in a circle around the post as shown in the figure. If the sled makes five complete revolutions every 60 s, find the force .F exerted on it by the rope



34.3 N	0
20.5 N	0
15.5 N	0
there is no answer	0
30.5 N	0







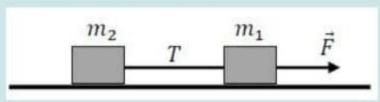






سؤال 6 غير مجاب عليه بعد الدرجة من 1.0000 آعلم هذا السؤال

Two boxes with masses m_1 = 4 kg and m_2 =8 kg are placed on a frictionless horizontal surface and pulled with a Force F_P =60N. Assume the string between doesn't stretch and is massless, the acceleration of the boxes is (in m/s^2):



there is no answer



31



5



15

0

6

0

سؤال **7** غير مجاب عليه بعد الدرحة من 1.0000











Not yet answered

Marked out of 1.000

Flag question

Time left 0:30:04

A freely falling object requires 2.00 s to travel the last 40.0 m before it hits the ground. From what height above the ground did it fall?



 $(g=10 \text{ m/s}^2)$

- 160 m
- 226 m
- 0 45

45 m

- 106 m
- 305 m

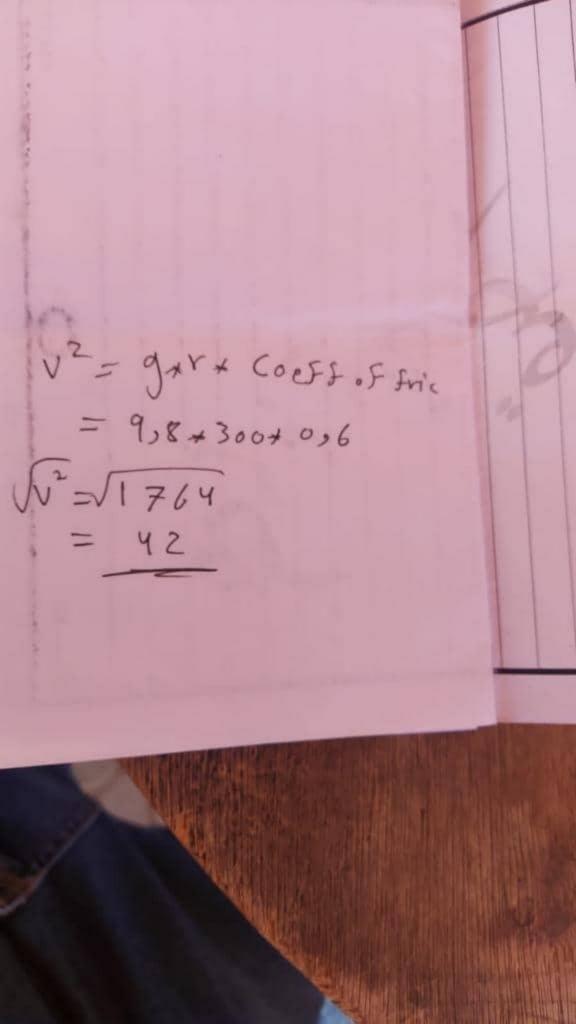
Finish attempt ...

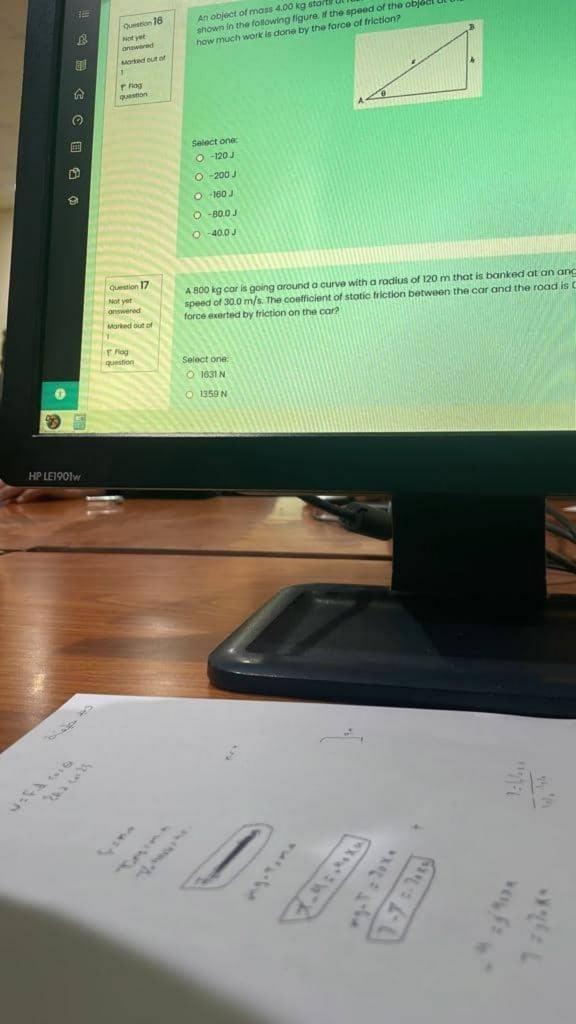
Previous activity

← Ch.2 Motion in one Dimension

Jump to...







O is zero. O remains the same. O cannot be determined without knowing the object's mass. O increases. decreases. Clear my choice Starting from rest, a 4.0-kg body reaches a speed of 6.0 m/s in 2.0 s. What is the net force active the body?

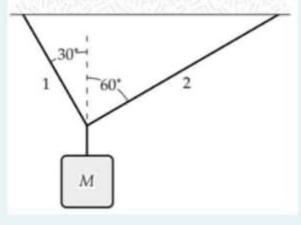
out of

Select one:



P Flag question

If M = 8.0 kg, what is the tension in string 1? $(g=10 \text{ m/s}^2)$



- O 78 N
- O 87 N
- 43 N61 N
- O 69 N

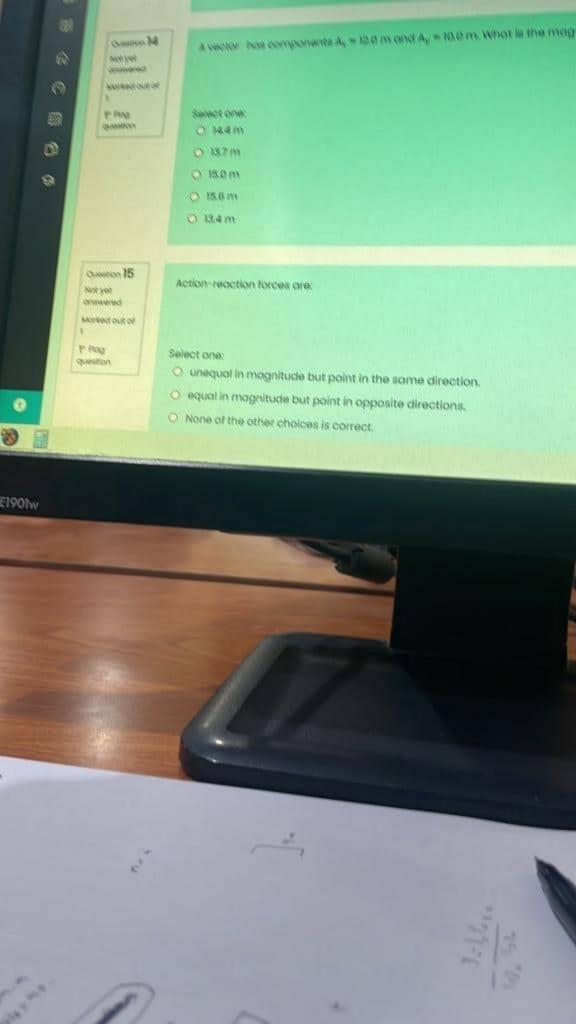
Question 2

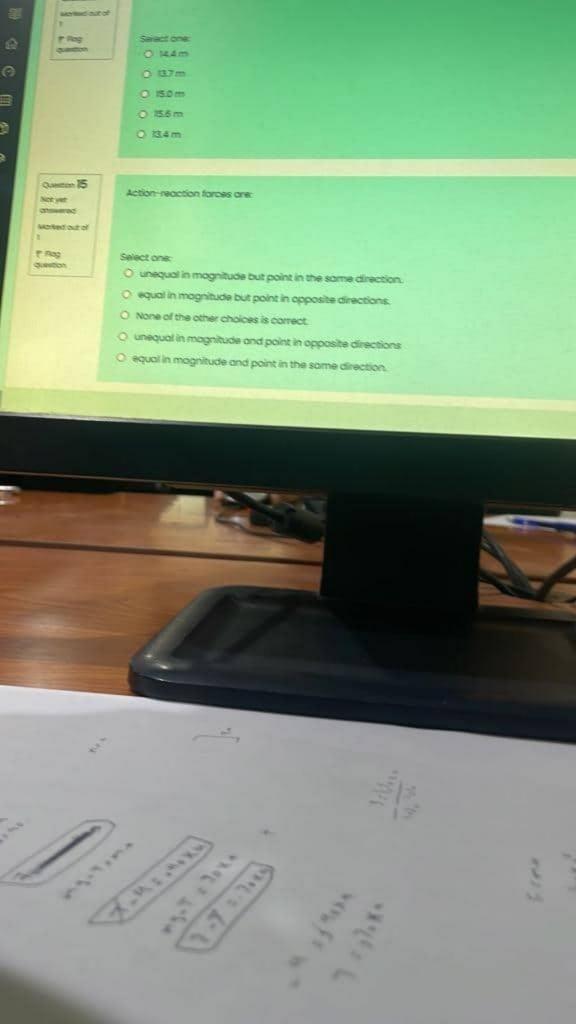
Not yet answered

Marked out of 1

Flag question

At t = 0, a particle leaves the













Question 2

Not yet answered

Marked out of 1.000

♥ Flag question

The height of a helicopter above the ground is given by h = 3.0 t², where h is in meters and t is in seconds. After 5.0 s, the helicopter releases a small mailbag. How long after its release does the mailbag reach the ground?

$$(g=10 \text{ m/s}^2)$$

- O 3.1 s
- O 6.3 s
- O 9.5 s
- O 4.7 s
- O 7.9 s

Finish attempt ...

Previous activity



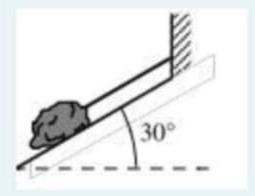
Not yet answered

Marked out of 1

P Flag question

A rope as shown holds a 25 kg rock at rest on a frictionless inclined plane as shown. Determine the tension in the rope.

Note: g=9.80 m/s²



Select one:

- O 9.8 N
- O 8.5 N
- O 245 N
- O 212 N
- O 122.5 N

Finish attempt ...

Previous activity

خطة المادة →

Jump to...















سؤال **7** غير مجاب عليه بعد الدرجة من 1.0000 الدرجة من 1.0000

A sled weighing 500 N is pulled along a flat surface. The coefficient of static friction is 0.2, and the coefficient of kinetic friction is 0.05. The force needed to start the sled moving

The force needed to start the sled moving

75 N

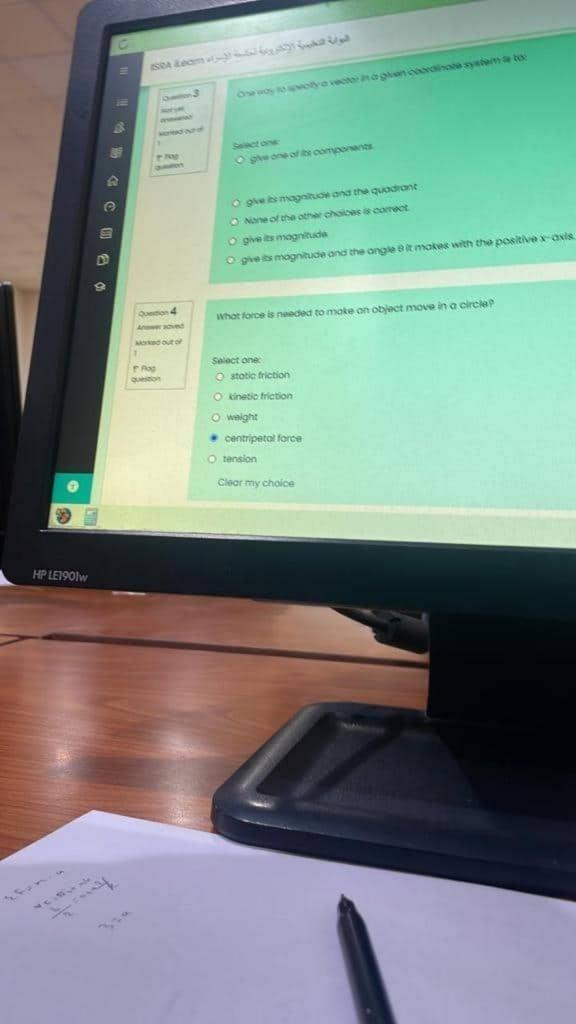
50 N

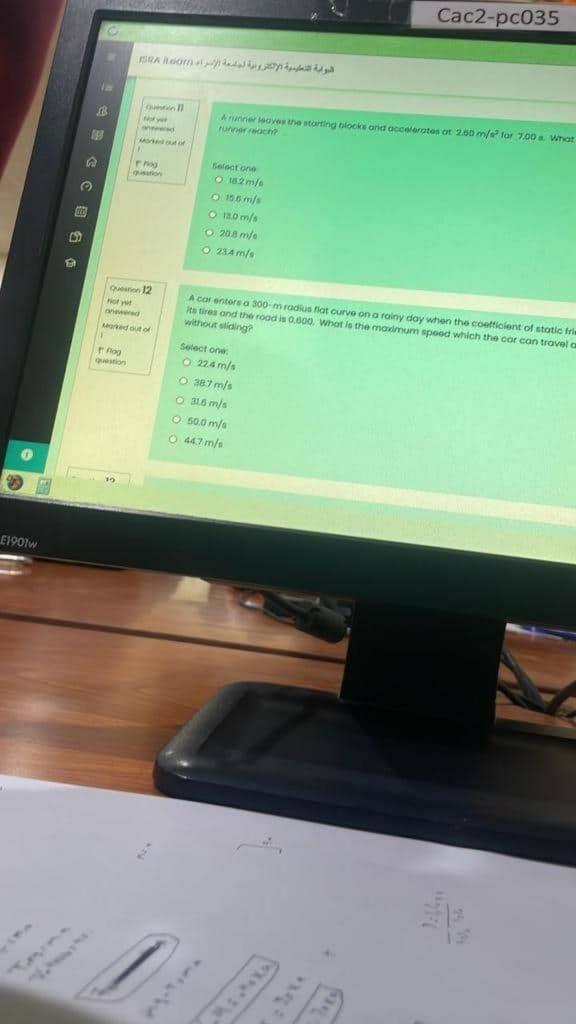
25 N

there is no answer

80 N

سؤال **8** غير مجاب عليه بعد الدرجة من 1.0000





Question 2

Not yet answered

Marked out of 1.00

Flag question

A particle moves with constant acceleration on the x-axis. If its initial velocity is 10 m/s, and its final velocity after 5 s is 40 m/s, what is its acceleration (in m/s²)?

Select one:

- 0 20
- 0 5
- 0 6
- 0 4
- O 3

Finish attempt ...

Previous activity

← Ch.2 Motion in one Dimension





