

### الملف الخطة الأسبوعية للأسبوع الخامس الحلقة الثانية في مدرسة أبو أيوب الأنصاري

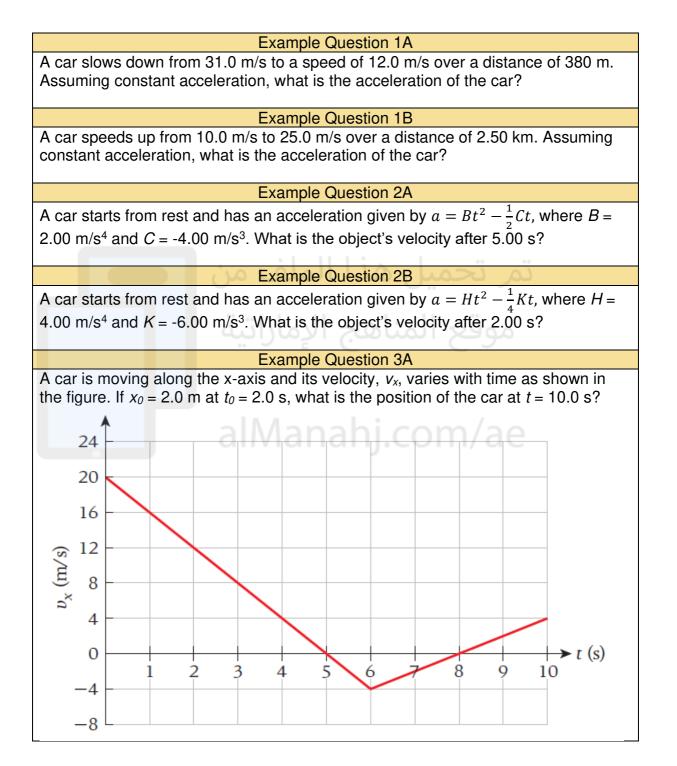
موقع المناهج المناهج الإماراتية الملفات مدرسية المدارس الفصل الأول

روابط مواقع التواصل الاجتماعي بحسب ملفات مدرسية			
		CULIMPE	
روابط مواد ملفات مدرسية على تلغرام			
الرياضيات	<u>اللغة الانجليزية</u>	<u>اللغة العربية</u>	<u>التربية الاسلامية</u>

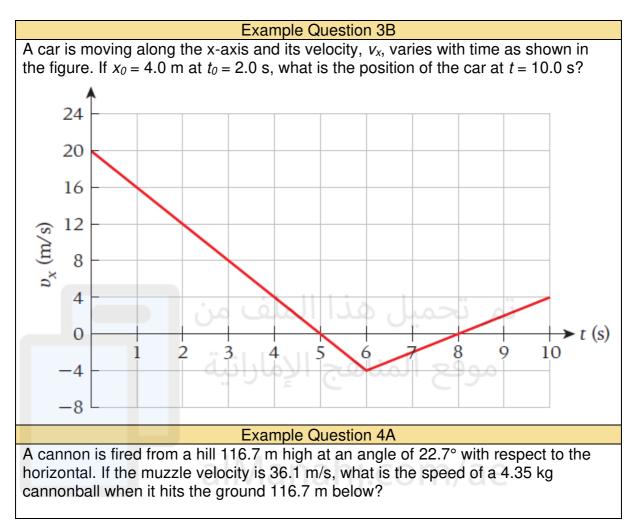
المزيد من الملفات بحسب ملفات مدرسية والمادة المدارس في الفصل الأول		
<u>توجيهات بدء الدراسة للعام الدراسي الجديد</u>	1	
<u>امتحانات منتصف الفصل الأول للصفين الحادي عشر والثاني</u> <u>عشر في مدرسة الشعلة الخاصة</u>	2	
<u>امتحانات منتصف الفصل الأول للصفين التاسع والعاشر في</u> <u>مدرسة الشعلة الخاصة</u>	3	
<u>امتحانات منتصف الفصل الأول للصفوف الخامس حتى الثامن في </u> <u>مدرسة الشعلة الخاصة</u>	4	
<u>امتحانات منتصف الفصل الأول للصفوف الأول حتى الرابع في </u> <u>مدرسة الشعلة الخاصة</u>	5	



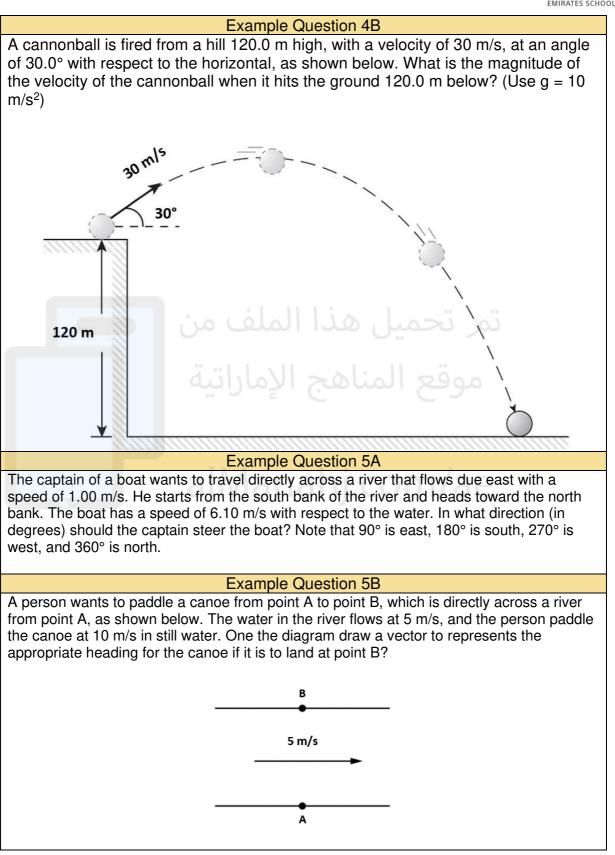
#### Grade 11 Physics EOT Term 1 Example Questions



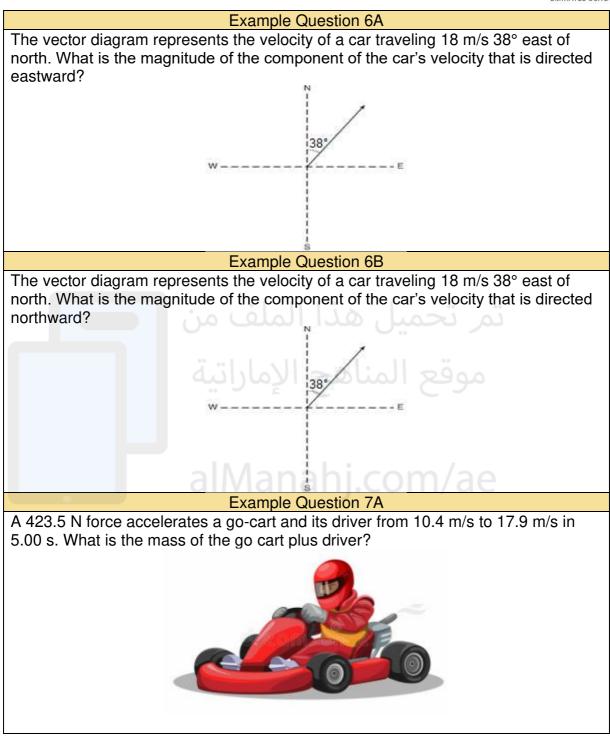




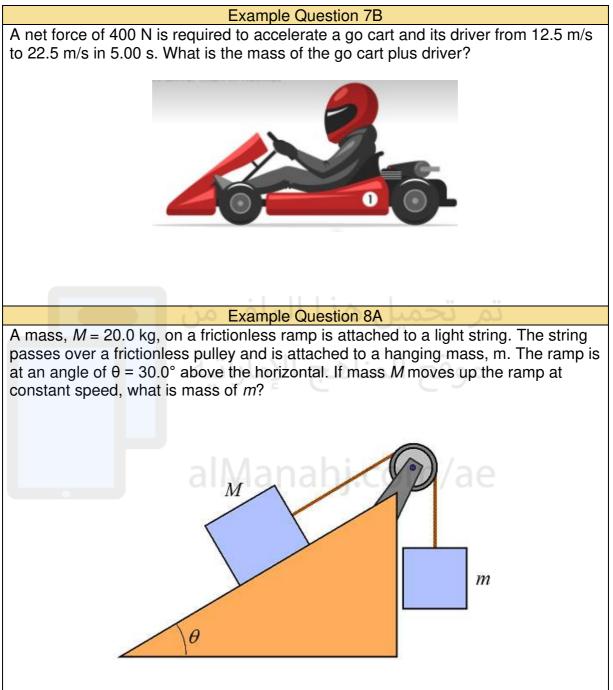




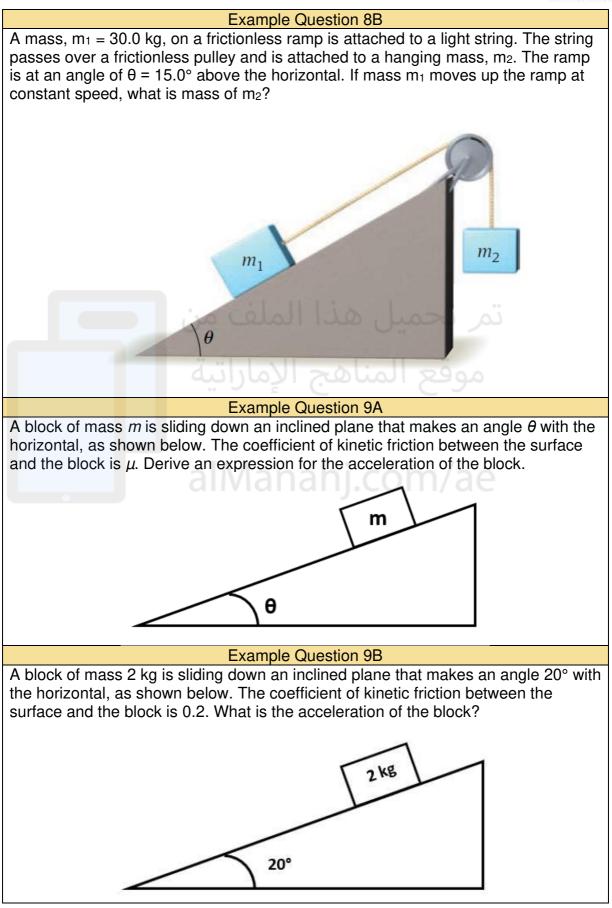












2022-23 Grade 11 Physics EOT Term 1 Example Questions Page 6 of 12



#### **Example Question 10A**

Calculate the centripetal force exerted on a vehicle of mass m = 1500 kg that is moving at a speed of 15.0 m/s around a curve of radius R = 400 m. Which force plays the role of the centripetal force in this case?

#### Example Question 10B

A car of mass 1600 kg driving around a horizontal circular track of radius 400 m at a speed of 22 m/s. What is the centripetal force exerted on the car?

#### Example Question 11A

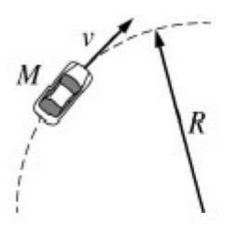
A coffee filter of mass *m* is dropped from rest, and it falls through the air. The magnitude of the drag force of the air on the coffee filter follows the equation  $F_D = kv^{2}$ , where *k* is a positive integer. Derive an equation in terms of m, g and k, to represent the terminal velocity of the coffee filter.

#### Example Question 11B

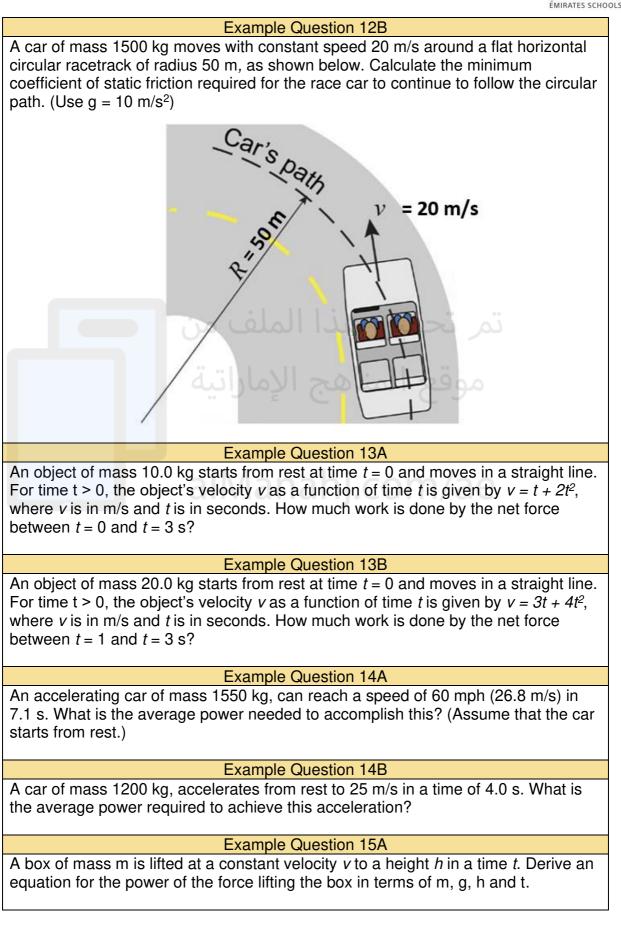
A skydiver of mass 80.0 kg fall through air with a (drag) constant *k* of 0.3. The magnitude of the drag force of the air on the skydiver follows the equation  $F_D = kv^{2}$ , where *k* is 0.3. Calculate the terminal velocity of the skydiver?

#### **Example Question 12A**

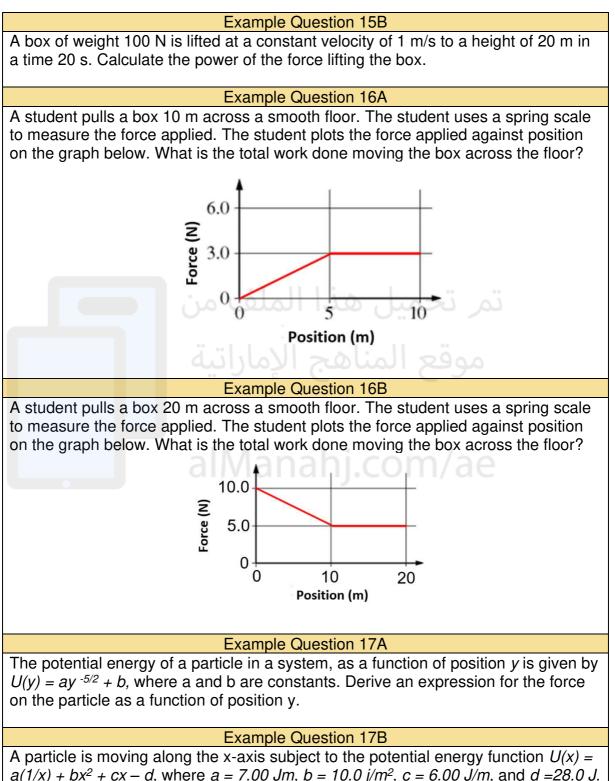
A car of mass M moves with constant speed v around a flat horizontal circular racetrack of radius R, as shown below. Derive an equation in terms of g, R and v, to represent the minimum coefficient of static friction required for the race car to continue to follow the circular path.





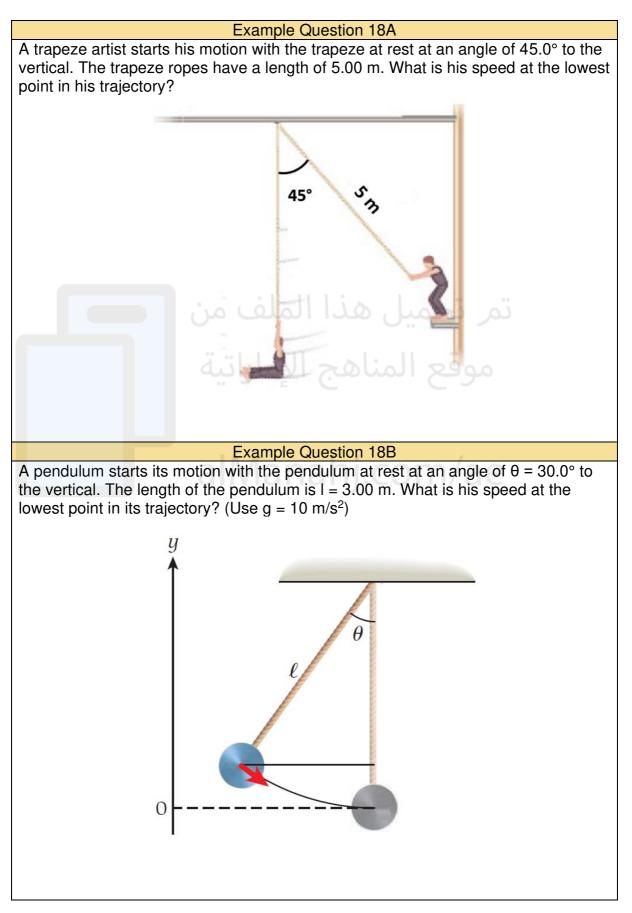






 $a(1/x) + bx^2 + cx - d$ , where a = 7.00 Jm,  $b = 10.0 j/m^2$ , c = 6.00 J/m, and d = 28.0 J. Express the force felt by the particle as a function of x.







#### Example Question 19A

When an object is moved from rest at point S to rest at point T in a gravitational field. Does the net work done by the gravitational field depend on the mass of the object?

#### **Example Question 19B**

When an object is moved from rest at point S to rest at point T in a gravitational field. Does the net work done by the gravitational field depend on the path taken between positions S and T?

#### **Example Question 20A**

A car moving in a horizontal circle at a constant speed of 10 km/h. Explain why the car is accelerating.

#### **Example Question 20B**

An object is moving with constant speed. Describe a situation when the velocity of the object could change despite having constant speed.

# موقع المناهج الإماراتية

## alManahj.com/ae



