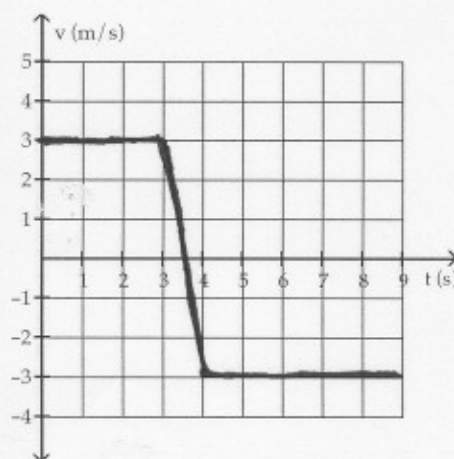Midterm Example
PHYS 1001

Congratulations!
The TestGen Plug-in has been installed
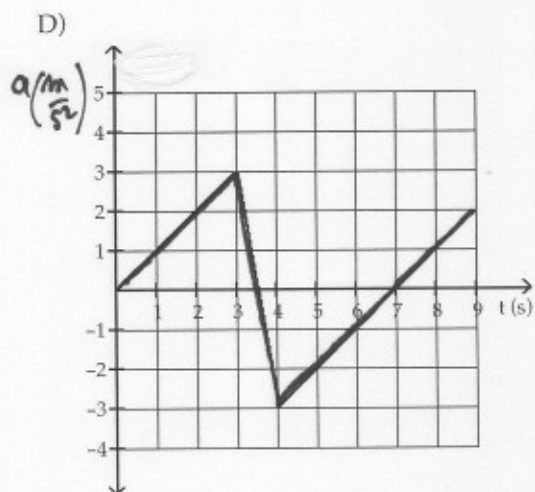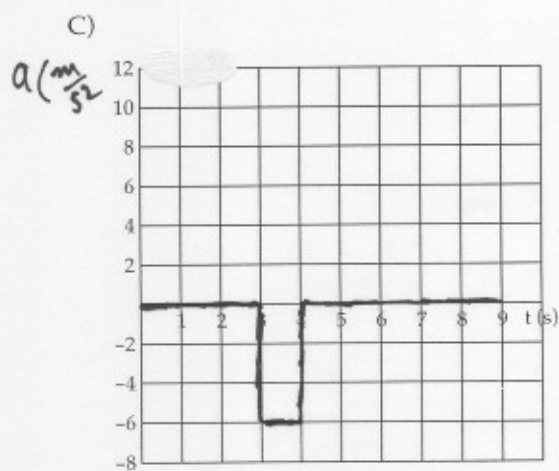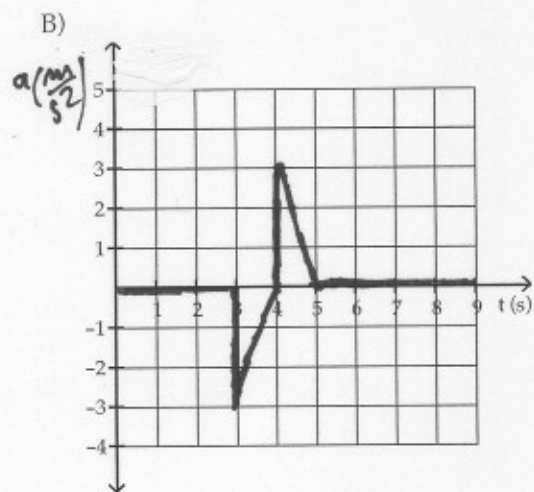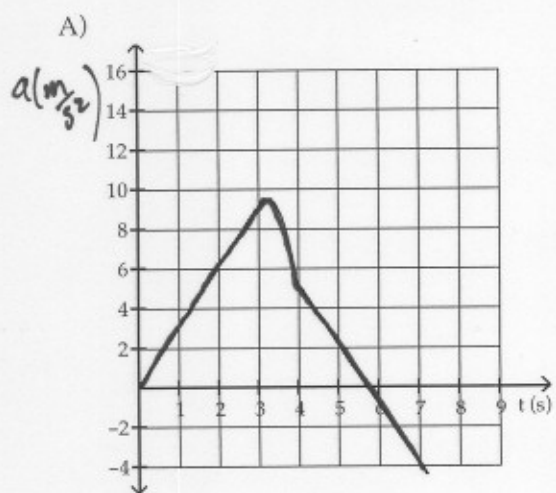
PEARSON
Education

1 An a distant planet, an object is dropped from rest from two different positions above the planet. The second position is 7.00 m above the first. The object falls to the planet in 3.00 s on the first drop and the object falls to the planet in 4.00 s on the second drop. What is the acceleration of gravity on the planet?

2) A 4.00-kg block rests on a 30.0 degree incline. If the coefficient of static friction between the block and the incline is 0.700, with what magnitude force must a horizontal force act on the block to start it moving up the incline?

3) The graph below shows the velocity of an object as a function of time. Which graph best represents the acceleration as a function of time?

A)

B)

C)

D)

Explain why.