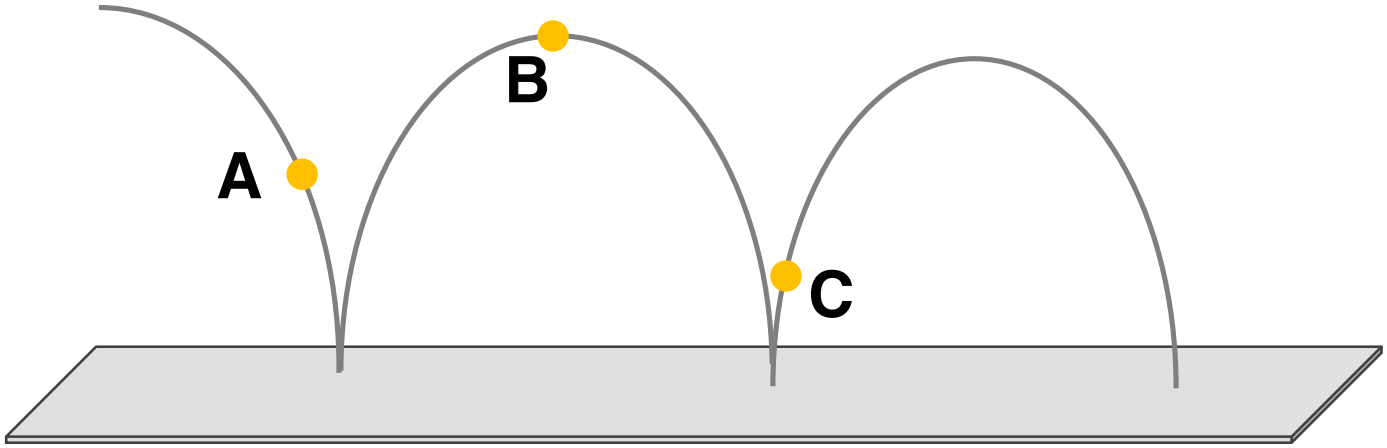
Energy Rankings

Question Group 1

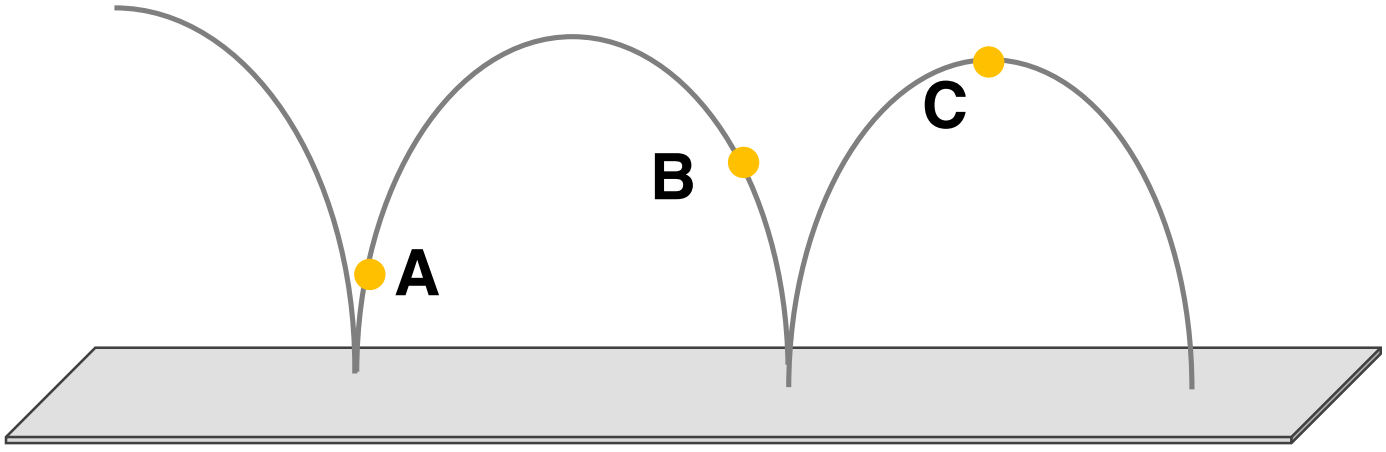
Question 1

An abnormally elastic ball bounces across the floor along the path that is shown. Rank the gravitational potential energy (PE) of the ball at the three marked locations.

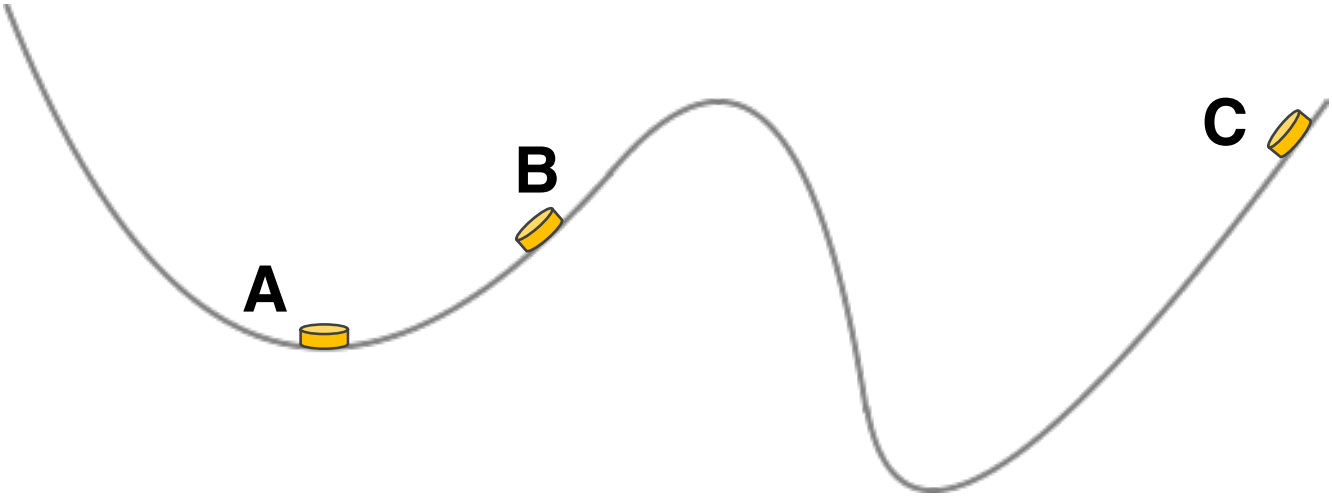


Question 2

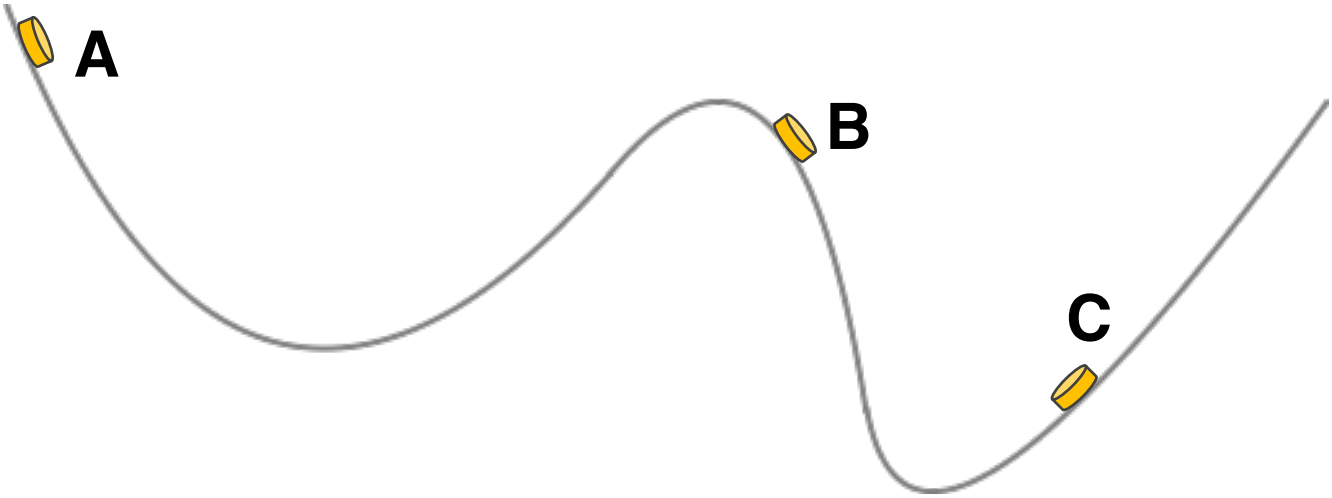
An abnormally elastic ball bounces across the floor along the path that is shown. Rank the gravitational potential energy (PE) of the ball at the three marked locations.



Question Group 2
Question 3
A disk slides along the low-friction surface along the path that is shown. Rank the gravitational potential energy (PE) of the disk at the three marked locations.



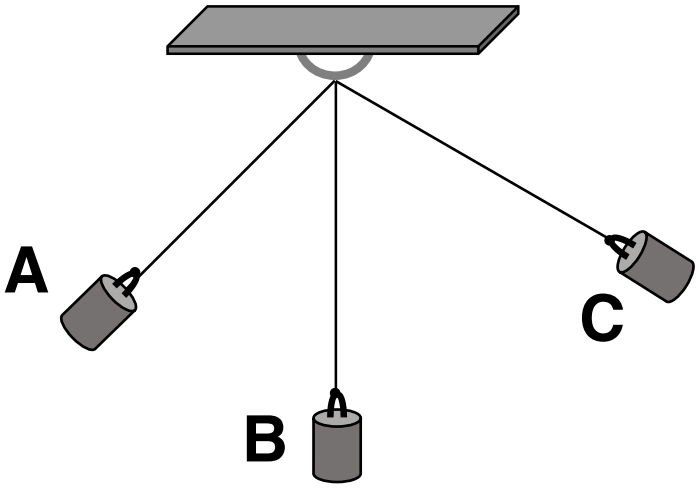
Question 4
A disk slides along the low-friction surface along the path that is shown. Rank the gravitational potential energy (PE) of the disk at the three marked locations.



Question Group 3

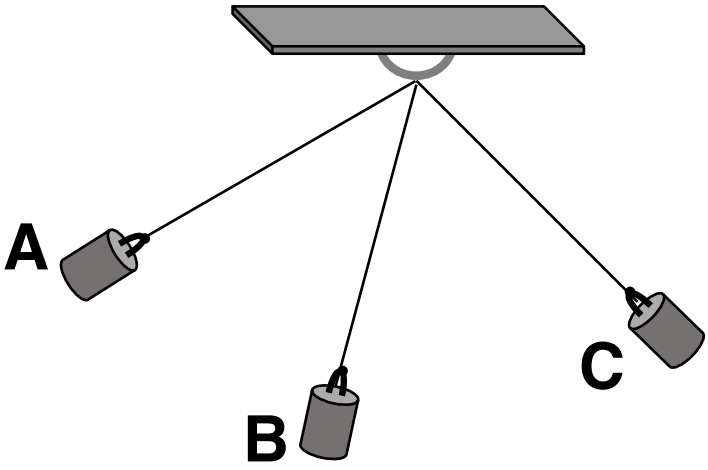
Question 5

A pendulum bob swings along its characteristic arc as shown. Rank the gravitational potential energy (PE) of the pendulum bob at the three marked locations.



Question 6

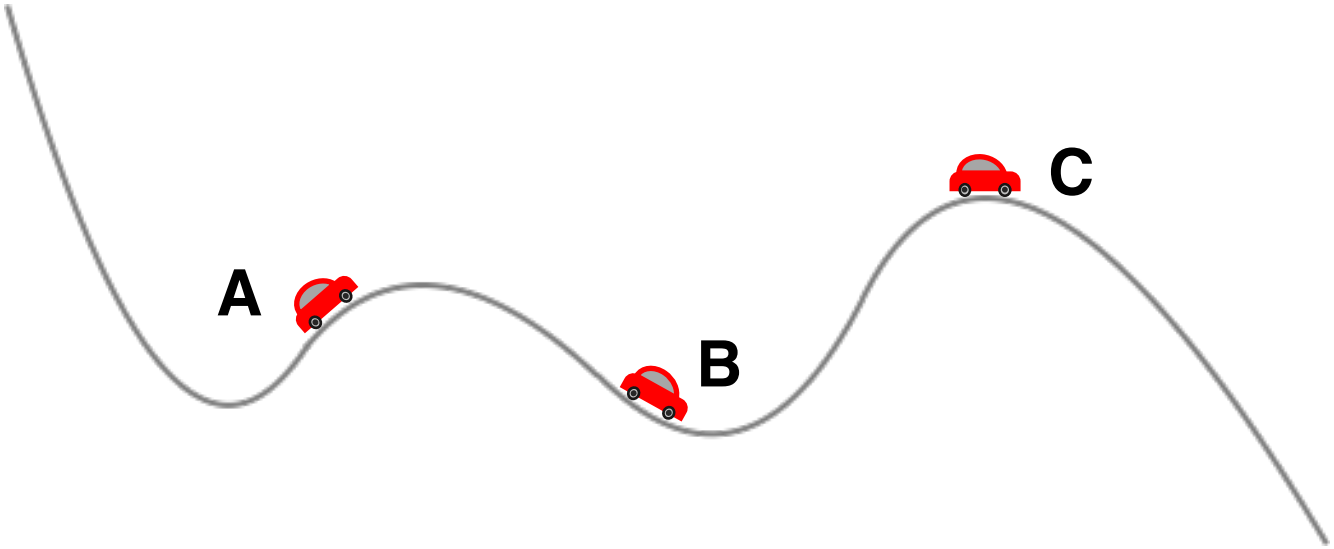
A pendulum bob swings along its characteristic arc as shown. Rank the gravitational potential energy (PE) of the pendulum bob at the three marked locations.



Question Group 4

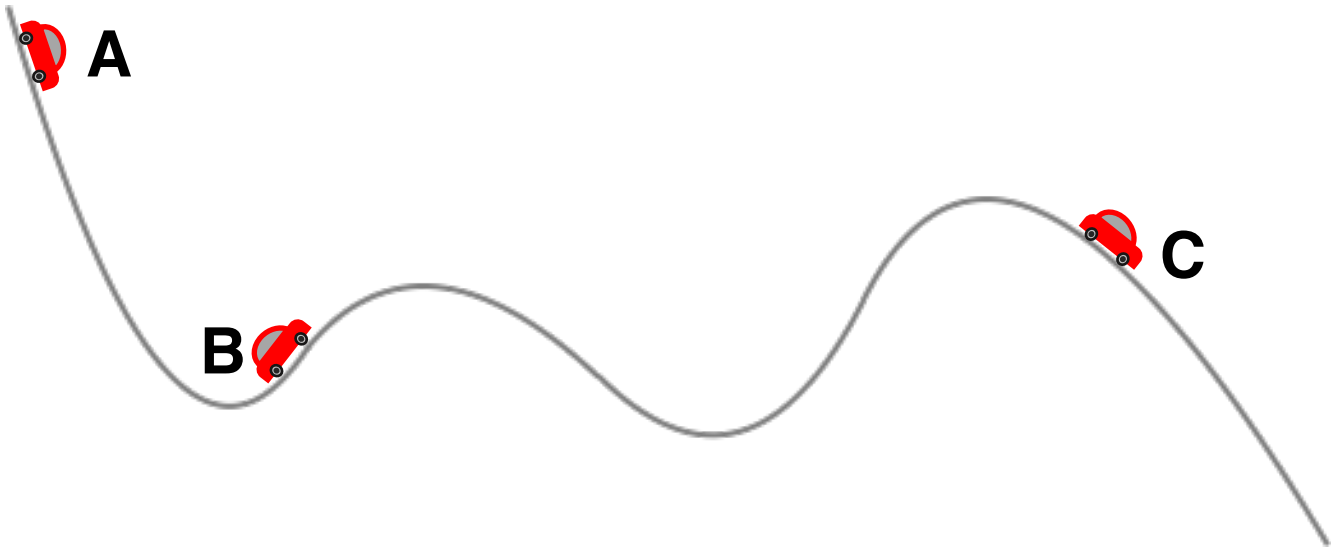
Question 7

A toy car rolls across the low-friction track along the path that is shown. Rank the gravitational potential energy (PE) of the disk at the three marked locations.

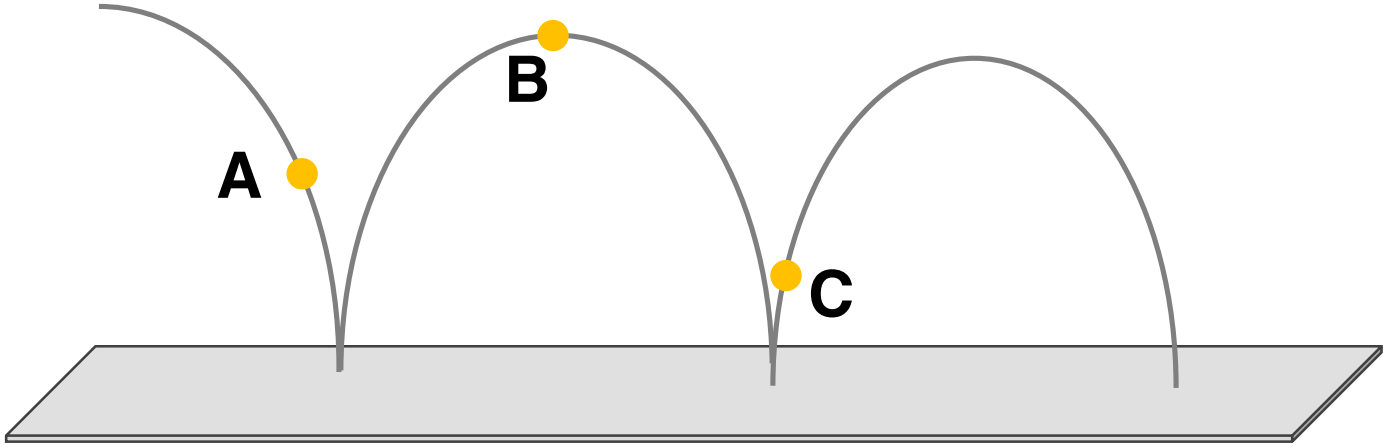


Question 8

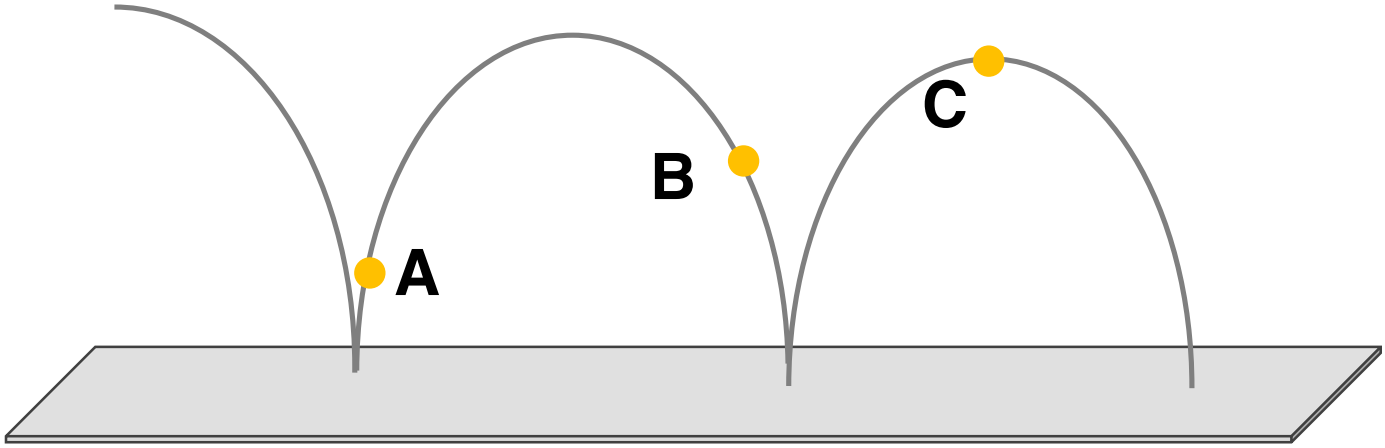
A toy car rolls across the low-friction track along the path that is shown. Rank the gravitational potential energy (PE) of the disk at the three marked locations.



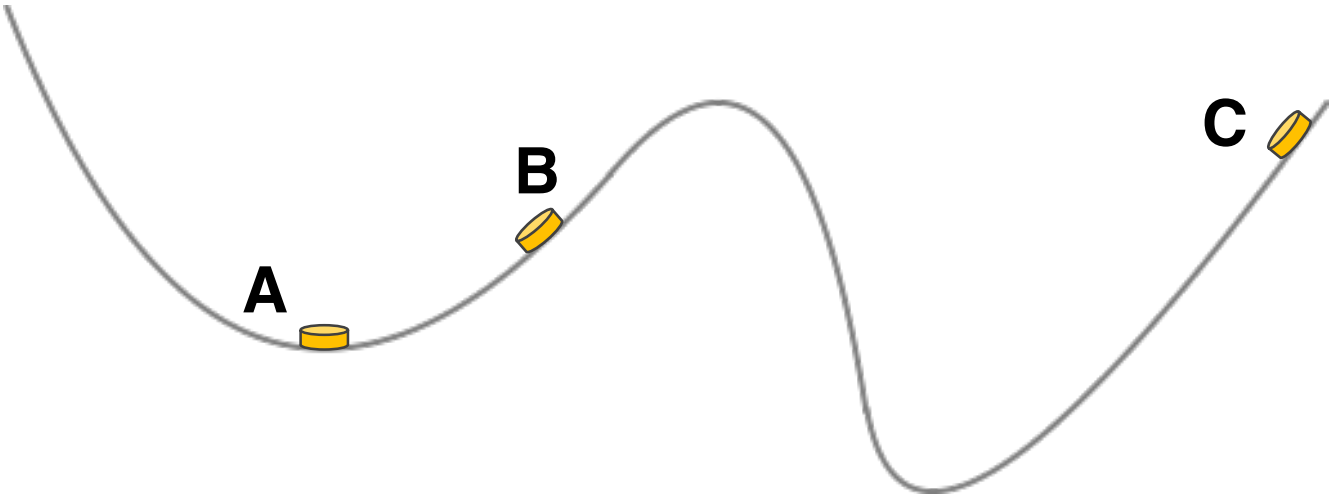
Question Group 5
Question 9
An abnormally elastic ball bounces across the floor along the path that is shown. Rank the kinetic energy (KE) of the ball at the three marked locations.



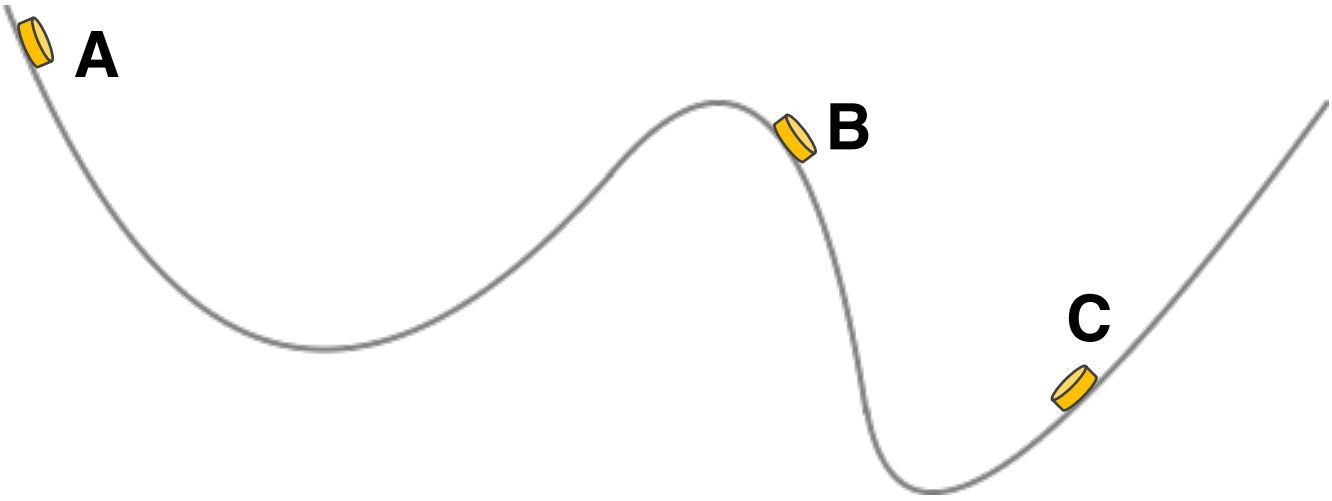
Question 10
An abnormally elastic ball bounces across the floor along the path that is shown. Rank the kinetic energy (KE) of the ball at the three marked locations.



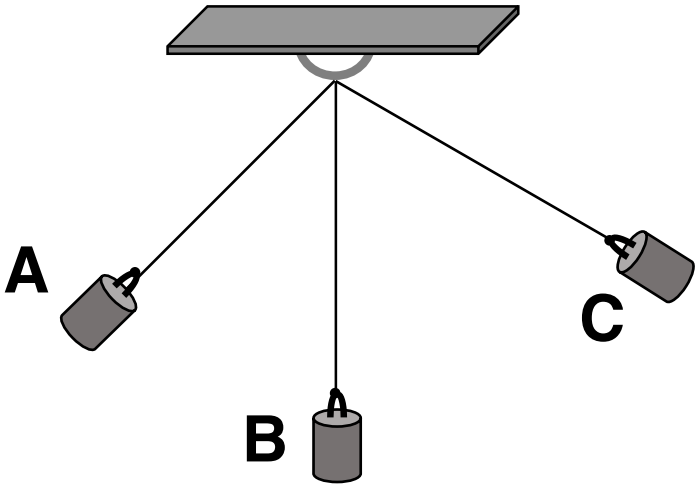
Question Group 6
Question 11
A disk slides along the low-friction surface along the path that is shown. Rank the kinetic energy (KE) of the disk at the three marked locations.



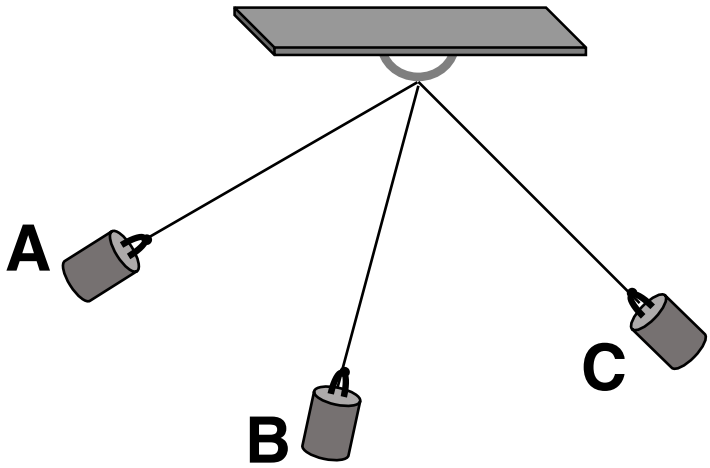
Question 12
A disk slides along the low-friction surface along the path that is shown. Rank the kinetic energy (KE) of the disk at the three marked locations.



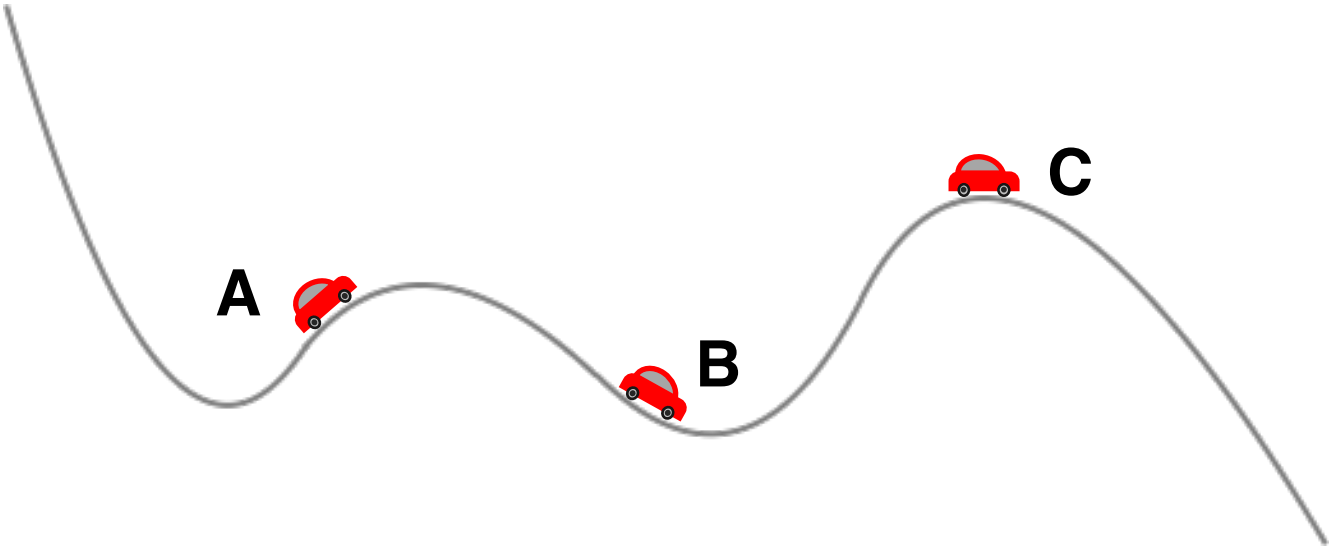
Question Group 7
Question 13
A pendulum bob swings along its characteristic arc as shown. Rank the kinetic energy (KE) of the pendulum bob at the three marked locations.



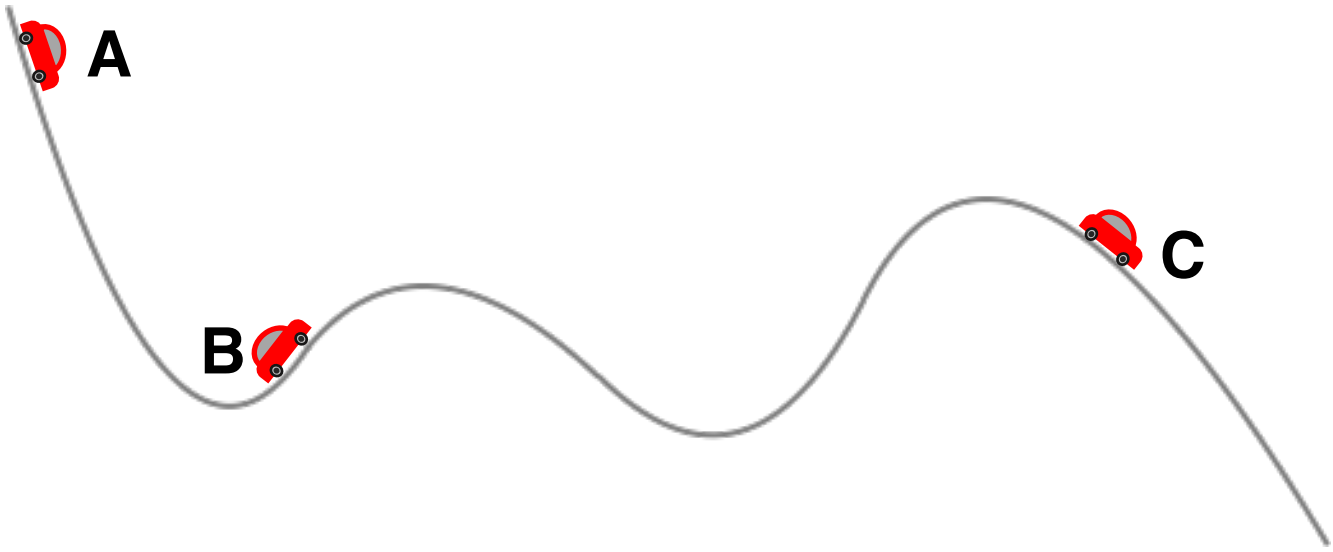
Question 14
A pendulum bob swings along its characteristic arc as shown. Rank the kinetic energy (KE) of the pendulum bob at the three marked locations.



Question Group 8
Question 15
A toy car rolls across the low-friction track along the path that is shown. Rank the kinetic energy (KE) of the disk at the three marked locations.



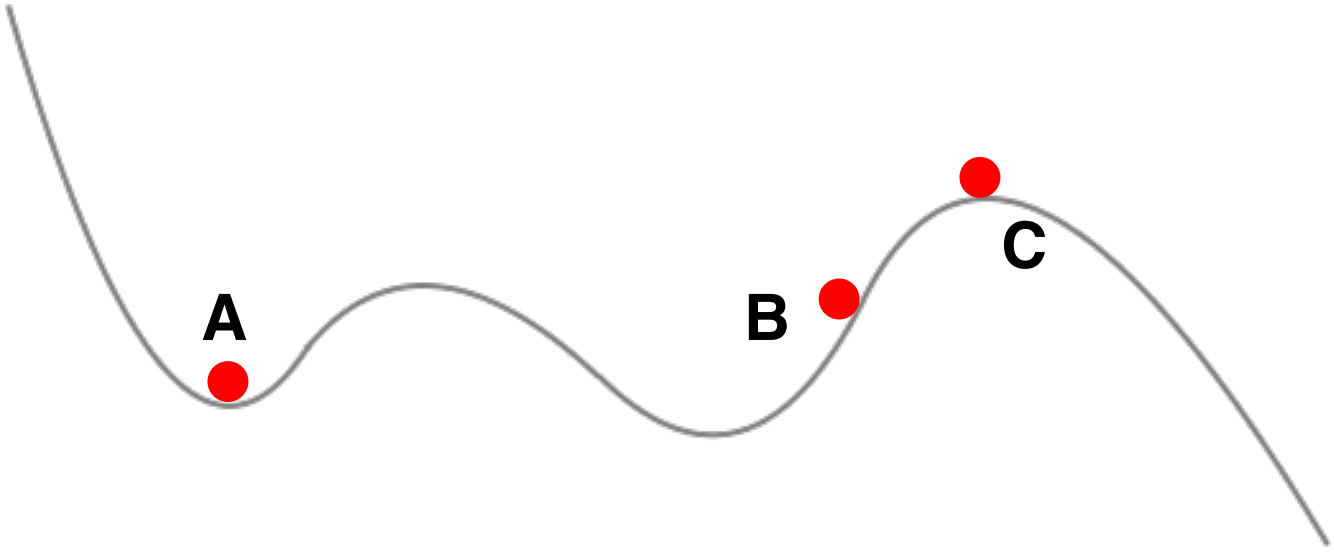
Question 16
A toy car rolls across the low-friction track along the path that is shown. Rank the kinetic energy (KE) of the disk at the three marked locations.



Question Group 9

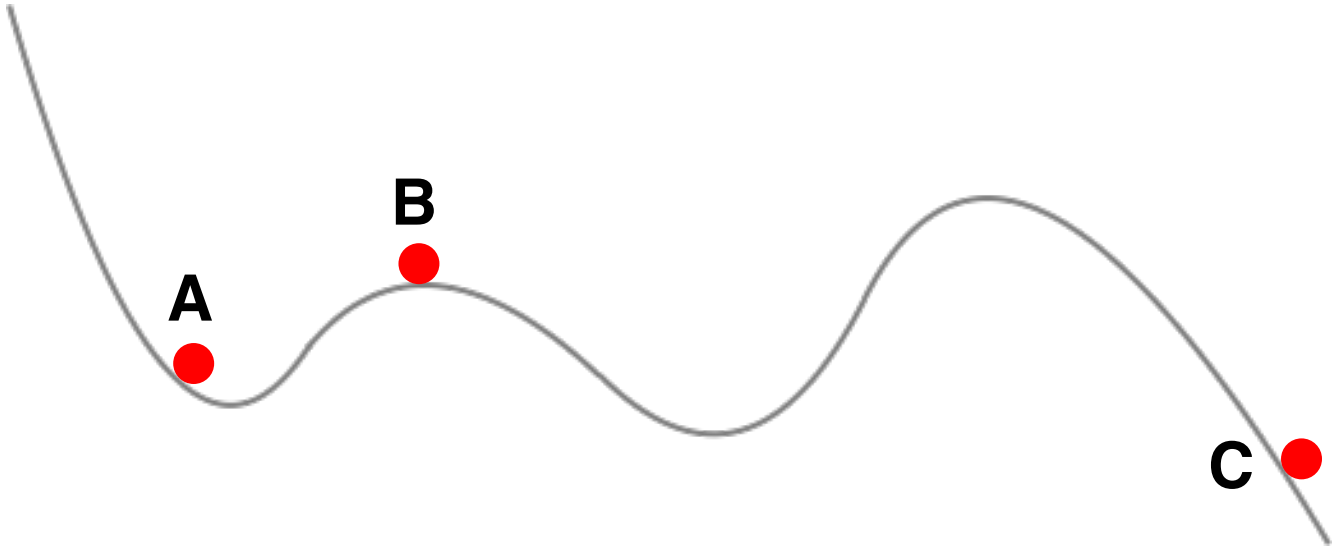
Question 17

A marble rolls along a track along the path that is shown. Rank the speed (v) of the marble for the three marked locations.

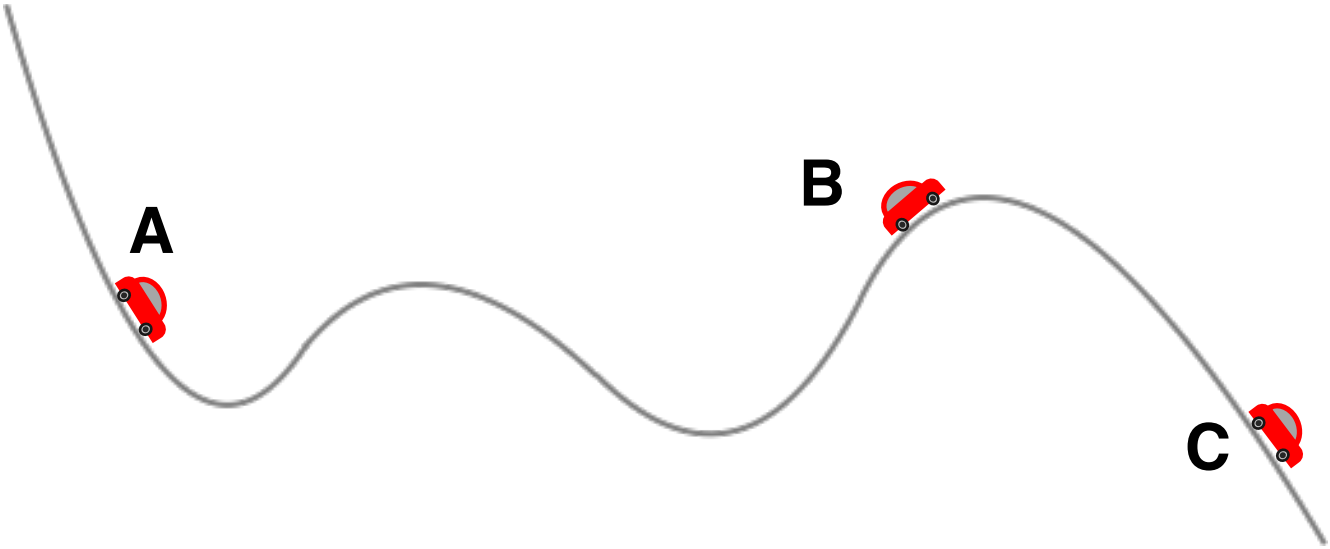


Question 18

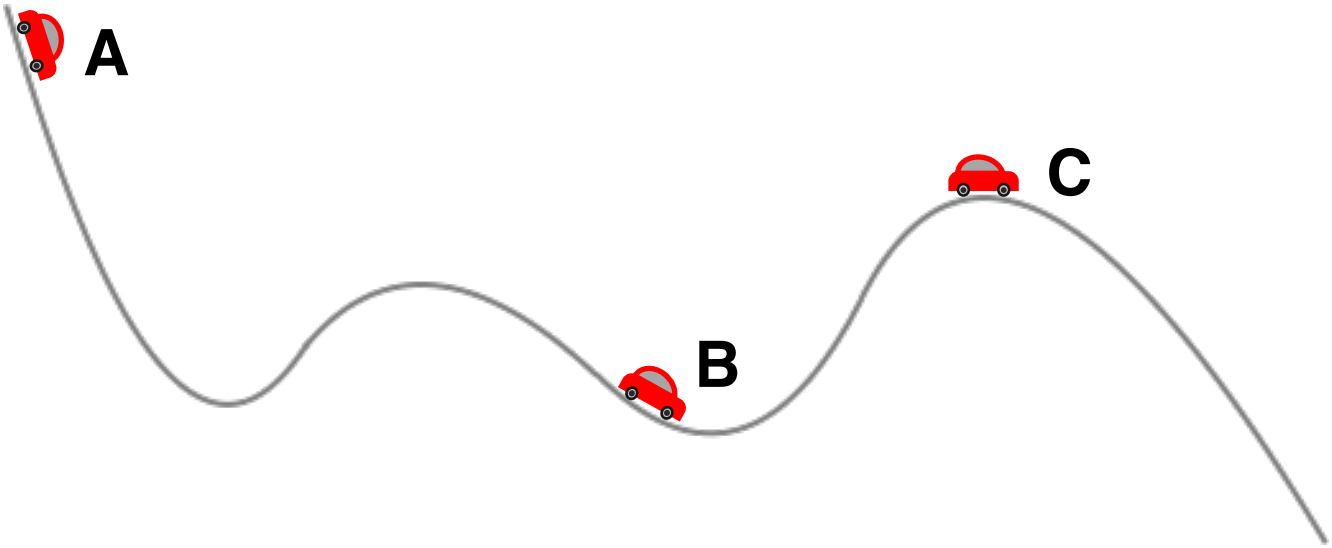
A marble rolls along a track along the path that is shown. Rank the speed (v) of the marble for the three marked locations.



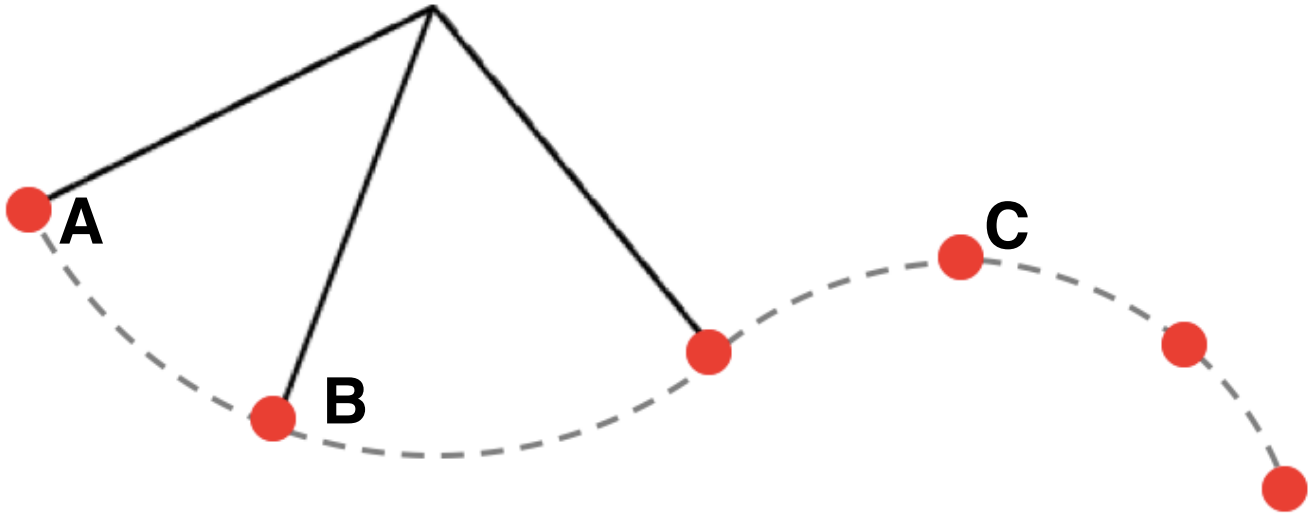
Question Group 10
Question 19
A toy car rolls along a track along a track as shown. Rank the speed (v) of the toy car for the three marked locations.



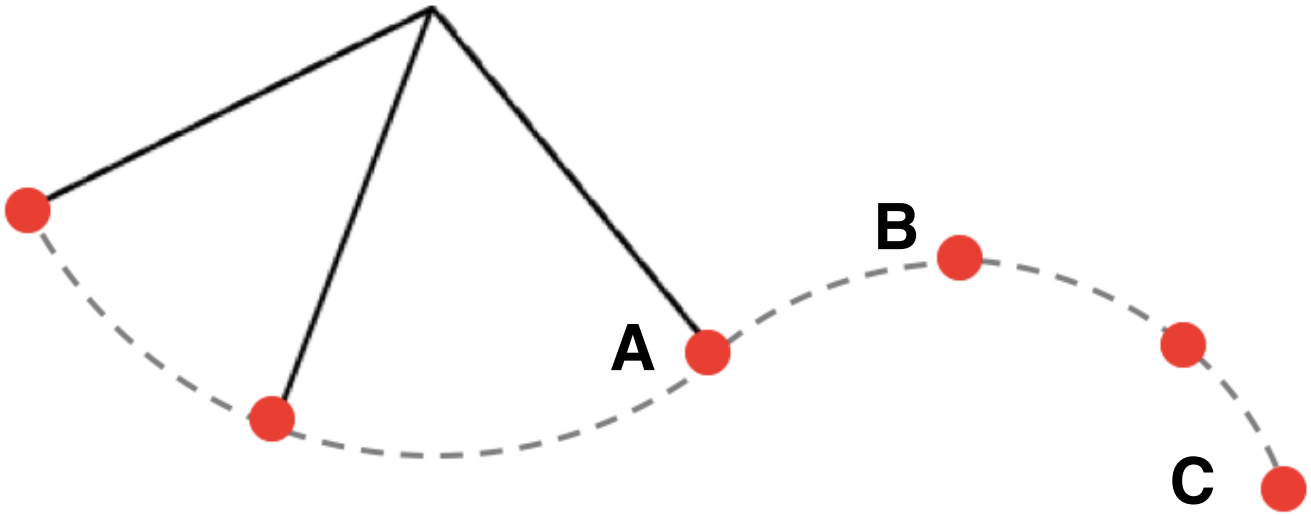
Question 20
A toy car rolls along a track along a track as shown. Rank the speed (v) of the toy car for the three marked locations.



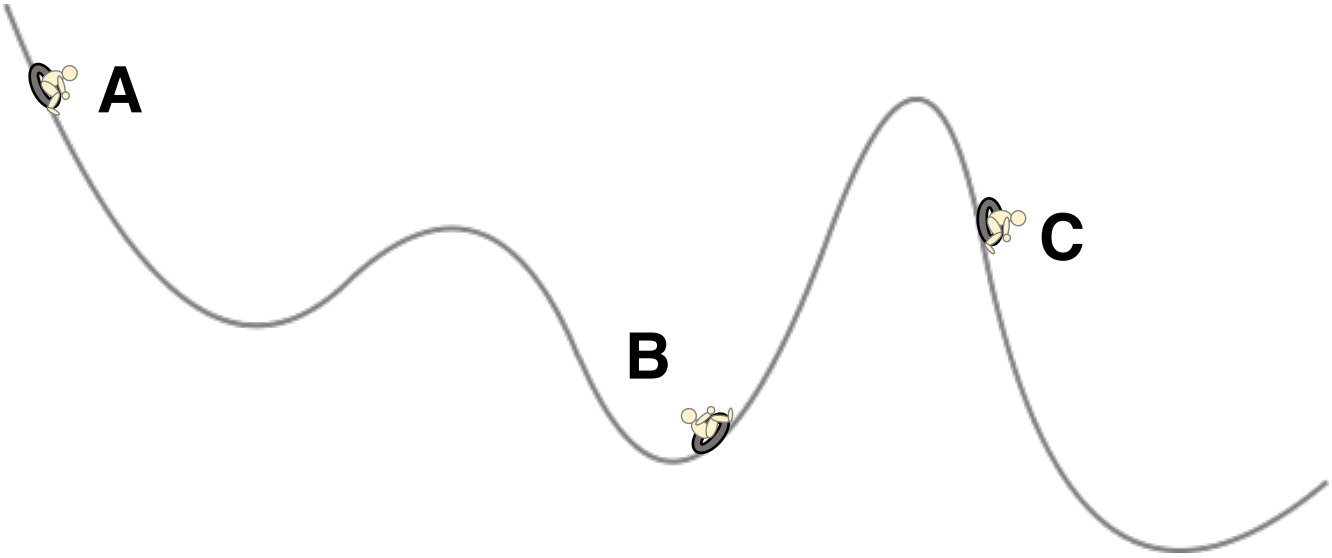
Question Group 11
Question 21
A ball placed on the end of a string swings along the circular arc until it falls off the string and moves through the air as shown. Rank the speed (v) of the ball for the three marked locations.



Question 22
A ball placed on the end of a string swings along the circular arc until it falls off the string and moves through the air as shown. Rank the speed (v) of the ball for the three marked locations.



Question Group 12
Question 23
A child enjoing a tube ride at a water park is moving along the path as shown. Rank the speed (v) of the child for the three marked locations.



Question 24
A child enjoing a tube ride at a water park is moving along the path as shown. Rank the speed (v) of the child for the three marked locations.