

Rectilinear Motion

- On a certain stretch of track, trains run at 36.54 kph. How far (m) back of a stopped train should be a warning torpedo be placed to signal an oncoming train? Assume that the brakes are applied at once and retard the train at the uniform rate of 0.61 m/s^2 .
 - 589.6
 - 544.2
 - 552.2
 - 578.2
- A stone is dropped from a captive balloon at an elevation of 304.8 m. Two seconds later another stone is thrown vertically upward from the ground with a velocity of 75.9 m/s . If $g = 9.75 \text{ m/s}^2$, when (s) and where the stones (m) pass each other?
 - 3 sec, 177.581 m
 - 4 sec, 189.331 m
 - 4 sec, 183.332 m
 - 5 sec, 182.925 m
- A stone is dropped down a well and 5 sec later, the sounds of the splash is heard. If the velocity of sound is 341.376 m/s , what is the depth (m) of the well?
 - 112.25
 - 107.64
 - 109.96
 - 119.62

Situation 1: A ball is thrown vertically upward from the ground with a speed of 25.2 m/s .

- How long (s) does it take to reach its highest point?
 - 3.21
 - 2.57
 - 3.15
 - 2.55
- How high (m) does it rise?
 - 37.84
 - 39.91
 - 32.37
 - 35.62
- At what time (s) will it be 27 m above the ground?
 - 2.31
 - 2.13
 - 1.25
 - 1.52

Curvilinear Motion

Situation 2: A bullet fired at an initial velocity of 350 m/s and an angle of 56° at the top of a 120 m tall building. Neglecting air resistance, determine the following:

- The maximum height (m) above the level ground that can be reached by the bullet.
 - 933.21
 - 925.26
 - 906.19
 - 911.25
- The time (s) for the bullet to hit the ground.
 - 26.284
 - 27.152
 - 25.254
 - 28.332
- The velocity (m/s) with which the bullet will hit the ground.
 - 554.323
 - 559.36
 - 558.254
 - 557.656

Situation 3: A projectile is fired from the vertical tube mounted on the vehicle which is travelling at the constant speed of 30 kph . The projectile leaves the tube with a velocity $V_f = 20 \text{ m/s}$ relative to the tube. Neglecting air resistance.

- Determine the distance (m) travelled by the vehicle during the flight of the projectile when the projectile will land on the vehicle at the tube location.

- 34
- 35
- 37
- 36

- Determine the time (s) of flight of the projectile until such time it will land back on the vehicle at the tube location.
 - 5.26
 - 4.59
 - 5.29
 - 4.51
- Determine the maximum height (m) that the projectile has traveled.
 - 26.31
 - 24.58
 - 20.39
 - 21.36
- A small coin is placed on a flat, horizontal turntable. The turntable is observed to make exactly three revolutions in 3.3 sec . What is the speed (cm/s) of the coin when it rides without slipping at a distance of 5.2 cm from the center of the turntable and the acceleration of the coin?
 - 171.11
 - 165.25
 - 146.12
 - 169.66
- A projectile is fired up the inclined plane at an initial velocity of 25 m/s . The plane is making an angle of 30° from the horizontal. If the projectile is fired at 30° from the inclined, compute the maximum height (m) measured perpendicular to the incline that is reached by the projectile. Neglect the air resistance.
 - 3.33
 - 4.11
 - 6.25
 - 5.26
- A basketball is tossed (30° from the horizontal) by a man with height 1.5 m . Distance between the man and basketball ring is 3 m . The height of the basketball ring is 4.5 m above the ground, neglecting the size of the ball in the calculation. Determine the time (s) that the ball hits the basket.
 - 0.859
 - 0.715
 - 0.574
 - 0.655

Situation 4: A 0.15 kg ball on the end of a 1.10 m long cord (negligible mass) is swung in a vertical circle.

- Determine the minimum speed (m/s) the ball must have at the top of its arc so that the ball continues moving in a circle.
 - 3.95
 - 3.29
 - 4.54
 - 5.64
- Calculate the tension (N) in the cord at the bottom of the arc, assuming the ball is moving twice the speed of the previous question.
 - 5.63
 - 5.68
 - 8.11
 - 7.34
- A coin is placed 11 cm from the axis of rotating turntable of variable speed. When the speed of the turntable is slowly increased, the coin remains fixed on the turntable until a rate of 36 rpm is reached and the coin slides off. What is the coefficient of static friction between the coin and the turntable?
 - 1.25
 - 1.17
 - 0.13
 - 0.16

Situation 5: The tires of a car make 65 revolutions as the car reduces its speed from 35 kph to 45 kph , the tires have a diameter of 0.80 m .

Dynamics Exam File

Charles Edward Smith



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