

Grade 12 Physics:

Acceleration

Answer the following problems on a separate sheet of paper. Show the formula used & all mathematical calculations.

1. How long will it take a falling rock to reach a speed of 45.0 m/s?
4.59 s
2. A car coming over a top of a hill at 30.0 m/s accelerates for 4.0 s at 0.70 m/s^2 . What is the increase in the speed of the car?
2.8 m/s
3. A steel ball starting from rest at the top of a ramp reaches a speed of 4.2 m/s at the bottom of the ramp. If the time to roll down is 3.3 s, how long is the ramp?
6.9 m
4. A lab cart with a ticker tape attached is given a push so that its speed is 0.50 m/s near the top of the slope. It accelerates at 0.14 m/s^2 for 0.65 s, reaching the bottom of the slope. What is the speed at the bottom of the slope?
0.59 m/s
5. A car travelling at 30.0 m/s puts on its brakes and decelerates uniformly to a stop in 5.2 s. What is its stopping distance?
78 m
6. A car, already travelling at 15.0 m/s, accelerates uniformly, travelling a distance of 200.0 m in the next 11.0 s. What will be the final speed?
21.4 m/s
7. If you lived on a planet where the acceleration of gravity is 3.4 m/s^2 , how long would it take for an object to fall 1000.0 m, air resistance ignored?
24.2 s
8. A potted plant falls from the balcony of an apartment 40.0 m above the ground.
 - a. How long will it take to reach the ground? **2.9 s**
 - b. What will be its speed on impact? **28.4 m/s**
9. A jet plane flying at 210.0 m/s goes into a vertical dive accelerating at 14.0 m/s^2 for 3.0 s.
 - a. How far does it dive during this time? **690 m**
 - b. What will be the final speed? **252.0 m/s**
10. A large jet must reach a speed of 100.0 m/s before it can generate enough lift to leave the ground. If its engine can produce a maximum acceleration of 3.0 m/s^2 , what is the minimum length of runway needed?
 $1.7 \times 10^3 \text{ m}$

4 Velocity Answer Key Cpo

Chao Zhang

A red circular graphic with a gradient, appearing as a stylized arrow or a decorative element, located to the right of the author's name.

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Solutions for Biot's Poroelastic Theory in Key Engineering Fields Yuanqiang Cai, Honglei Sun, 2017-05-09 *Solutions for Biot's Poroelastic Theory in Key Engineering Fields* Theory and Applications provides solutions related to soil structure interactions based on a poroelasticity theory including moving loads such as trains This book provides the commonly used methods for solving Biot's formulations and conclusions on fully saturated soil dynamics It presents various solution methods used in Biot's theory such as the integral transformation method the wave potential decomposition method the finite element and the 2.5D finite element method It is suitable for graduate students researchers and engineers who are interested in the soil structure interaction problem with Biot's theory as well as engineers in several subdisciplines Focuses on the structure saturated soil interactions based on Biot's theory Provides solutions analytical and numerical related to soil structure interactions based on a poroelasticity theory including moving loads such as trains Includes common and novel solution methods for Biot's formulation

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