

Solutions to Problems

1. The distance of travel (displacement) can be found by using Eq. 2-1 for the average velocity. Also note that the units of the velocity and the time are not the same, so the speed units will be converted:

$$x = \frac{\Delta x}{\Delta t} \Rightarrow \Delta x = v \Delta t = (200 \text{ km/h}) \left(\frac{2.0 \text{ h}}{3600 \text{ s}} \right) = 0.111 \text{ km} = \boxed{111 \text{ m}}$$

2. The average speed is given by Eq. 2-2:

$$v = \Delta x / \Delta t = 200 \text{ km} / 2.0 \text{ h} = \boxed{100 \text{ km/h}}$$

3. The average velocity is given by Eq. 2-1:

$$v = \frac{\Delta x}{\Delta t} = \frac{8.7 \text{ km} - 4.2 \text{ km}}{4.2 \text{ h} - 2.2 \text{ h}} = \frac{4.5 \text{ km}}{2.0 \text{ h}} = \boxed{2.25 \text{ km/h}}$$

The average speed cannot be calculated. To calculate the average speed, we would need to know the actual distance traveled, and it is not given. We only have the displacement.

4. The average velocity is given by Eq. 2-1:

$$v = \frac{\Delta x}{\Delta t} = \frac{-4.2 \text{ km} - 4.2 \text{ km}}{1.2 \text{ h} - 0.0 \text{ h}} = \frac{-7.4 \text{ km}}{1.2 \text{ h}} = \boxed{-6.2 \text{ km/h}}$$

The negative sign indicates the direction.

5. The speed of sound is indicated in the problem as 3 miles per 5 seconds. The speed is calculated as follows:

$$\text{speed} = \frac{\text{distance}}{\text{time}} = \left(\frac{3 \text{ mi}}{5 \text{ s}} \right) \left(\frac{1609 \text{ m}}{1 \text{ mi}} \right) = \boxed{965 \text{ m/s}}$$

The speed of 965 m/s would imply the sound traveling a distance of 965 meters (which is approximately 1 km) in 1 second. So the value could be approximated as $\boxed{1 \text{ km every } 1 \text{ second}}$.

6. The time for the first part of the trip is calculated from the initial speed and the first distance:

$$t_1 = \frac{\Delta x_1}{v_1} = \Delta t_1 = \frac{\Delta x_1}{v_1} = \frac{100 \text{ km}}{100 \text{ km/h}} = 1.0 \text{ h} = 60 \text{ min}$$

The time for the second part of the trip is now calculated:

$$\Delta t_2 = \Delta t_{\text{total}} - \Delta t_1 = 2.0 \text{ h} - 1.0 \text{ h} = 1.0 \text{ h} = 60 \text{ min}$$

The distance for the second part of the trip is calculated from the average speed for that part of the trip and the time for that part of the trip:

$$x_2 = \frac{\Delta x_2}{\Delta t_2} \Rightarrow \Delta x_2 = v_2 \Delta t_2 = (100 \text{ km/h})(1.0 \text{ h}) = 100 \text{ km} = 1.0 \times 10^2 \text{ km}$$

- (a) The total distance is then $\Delta x_{\text{total}} = \Delta x_1 + \Delta x_2 = 100 \text{ km} + 100 \text{ km} = 200 \text{ km} = \boxed{2.0 \times 10^2 \text{ km}}$

- (b) The average speed is 100% the average of the two speeds. Use the definition of average speed, Eq. 2-2:

$$v = \frac{\Delta x_{\text{total}}}{\Delta t_{\text{total}}} = \frac{200 \text{ km}}{2.0 \text{ h}} = \boxed{100 \text{ km/h}}$$

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Giancoli Physics Chapter 24 Solutions

Douglas C. Giancoli, Irvin A. Miller



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Giancoli, 2008 Key Message This book aims to explain physics in a readable and interesting manner that is accessible and clear and to teach readers by anticipating their needs and difficulties without oversimplifying Physics is a description of reality and thus each topic begins with concrete observations and experiences that readers can directly relate to We then move on to the generalizations and more formal treatment of the topic Not only does this make the material more interesting

and easier to understand but it is closer to the way physics is actually practiced Key Topics INTRODUCTION MEASUREMENT ESTIMATING DESCRIBING MOTION KINEMATICS IN ONE DIMENSION KINEMATICS IN TWO OR THREE DIMENSIONS VECTORS DYNAMICS NEWTON S LAWS OF MOTION USING NEWTON S LAWS FRICTION CIRCULAR MOTION DRAG FORCES GRAVITATION AND NEWTON S6 SYNTHESIS WORK AND ENERGY CONSERVATION OF ENERGY LINEAR MOMENTUM ROTATIONAL MOTION ANGULAR MOMENTUM GENERAL ROTATION STATIC EQUILIBRIUM ELASTICITY AND FRACTURE FLUIDS OSCILLATIONS WAVE MOTION SOUND TEMPERATURE THERMAL EXPANSION AND THE IDEAL GAS LAW KINETIC THEORY OF GASES HEAT AND THE FIRST LAW OF THERMODYNAMICS SECOND LAW OF THERMODYNAMICS ELECTRIC CHARGE AND ELECTRIC FIELD GAUSS S LAW ELECTRIC POTENTIAL CAPACITANCE DIELECTRICS ELECTRIC ENERGY STORAGE ELECTRIC CURRENTS AND RESISTANCE DC CIRCUITS MAGNETISM SOURCES OF MAGNETIC FIELD ELECTROMAGNETIC INDUCTION AND FARADAY S LAW INDUCTANCE ELECTROMAGNETIC OSCILLATIONS AND AC CIRCUITS MAXWELL S EQUATIONS AND ELECTROMAGNETIC WAVES LIGHT REFLECTION AND REFRACTION LENSES AND OPTICAL INSTRUMENTS THE WAVE NATURE OF LIGHT INTERFERENCE DIFFRACTION AND POLARIZATION SPECIAL THEORY OF RELATIVITY EARLY QUANTUM THEORY AND MODELS OF THE ATOM QUANTUM MECHANICS QUANTUM MECHANICS OF ATOMS MOLECULES AND SOLIDS NUCLEAR PHYSICS AND RADIOACTIVITY NUCLEAR ENERGY EFFECTS AND USES OF RADIATION ELEMENTARY PARTICLES ASTROPHYSICS AND COSMOLOGY Market Description This book is written for readers interested in learning

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problems to help students prepare for Professional Engineering exams **Just-in-time Teaching** Gregor M. Novak,1999
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