

38. The line through  $(-2, 5)$  and  $(k, 1)$  has  $x$ -intercept 3, so also passes through  $(3, 0)$ . Its slope  $m$  satisfies

$$\frac{1-0}{k-3} = m = \frac{0-5}{3+2} = -1.$$

Thus  $k-3 = -1$ , and so  $k = 2$ .

39.  $C = Ax + B$ . If  $C = 5,000$  when  $x = 10,000$  and  $C = 6,000$  when  $x = 15,000$ , then

$$\begin{aligned} 10,000A + B &= 5,000 \\ 15,000A + B &= 6,000 \end{aligned}$$

Subtracting these equations gives  $5,000A = 1,000$ , so  $A = 1/5$ . From the first equation,  $2,000 + B = 5,000$ , so  $B = 3,000$ . The cost of printing 100,000 pamphlets is  $\$100,000/5 + 3,000 = \$23,000$ .

40.  $-40^\circ$  and  $-40^\circ$  is the same temperature on both the Fahrenheit and Celsius scales.

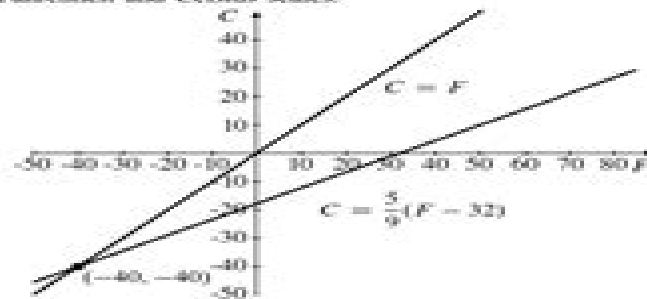


Fig. P.2-40

41.  $A = (2, 1)$ ,  $B = (6, 4)$ ,  $C = (5, -3)$   
 $|AB| = \sqrt{(6-2)^2 + (4-1)^2} = \sqrt{25} = 5$   
 $|AC| = \sqrt{(5-2)^2 + (-3-1)^2} = \sqrt{25} = 5$   
 $|BC| = \sqrt{(6-5)^2 + (4+3)^2} = \sqrt{50} = 5\sqrt{2}$ .  
 Since  $|AB| = |AC|$ , triangle  $ABC$  is isosceles.
42.  $A = (0, 0)$ ,  $B = (1, \sqrt{3})$ ,  $C = (2, 0)$   
 $|AB| = \sqrt{(1-0)^2 + (\sqrt{3}-0)^2} = \sqrt{4} = 2$   
 $|AC| = \sqrt{(2-0)^2 + (0-0)^2} = \sqrt{4} = 2$   
 $|BC| = \sqrt{(2-1)^2 + (0-\sqrt{3})^2} = \sqrt{4} = 2$ .  
 Since  $|AB| = |AC| = |BC|$ , triangle  $ABC$  is equilateral.

43.  $A = (2, -1)$ ,  $B = (1, 3)$ ,  $C = (-3, 2)$   
 $|AB| = \sqrt{(1-2)^2 + (3+1)^2} = \sqrt{17}$   
 $|AC| = \sqrt{(-3-2)^2 + (2+1)^2} = \sqrt{34} = \sqrt{2}\sqrt{17}$   
 $|BC| = \sqrt{(-3-1)^2 + (2-3)^2} = \sqrt{17}$ .

Since  $|AB| = |BC|$  and  $|AC| = \sqrt{2}|AB|$ , triangle  $ABC$  is an isosceles right-angled triangle with right angle at  $B$ . Thus  $ABCD$  is a square if  $D$  is displaced from  $C$  by the same amount  $A$  is from  $B$ , that is, by increments  $\Delta x = 2-1 = 1$  and  $\Delta y = -1-3 = -4$ . Thus  $D = (-3+1, 2+(-4)) = (-2, -2)$ .

44. If  $M = (x_m, y_m)$  is the midpoint of  $P_1P_2$ , then the displacement of  $M$  from  $P_1$  equals the displacement of  $P_2$  from  $M$ :

$$x_m - x_1 = x_2 - x_m, \quad y_m - y_1 = y_2 - y_m.$$

Thus  $x_m = (x_1 + x_2)/2$  and  $y_m = (y_1 + y_2)/2$ .

45. If  $Q = (x_q, y_q)$  is the point on  $P_1P_2$  that is two thirds of the way from  $P_1$  to  $P_2$ , then the displacement of  $Q$  from  $P_1$  equals twice the displacement of  $P_2$  from  $Q$ :

$$x_q - x_1 = 2(x_2 - x_q), \quad y_q - y_1 = 2(y_2 - y_q).$$

Thus  $x_q = (x_1 + 2x_2)/3$  and  $y_q = (y_1 + 2y_2)/3$ .

46. Let the coordinates of  $P$  be  $(x, 0)$  and those of  $Q$  be  $(X, -2X)$ . If the midpoint of  $PQ$  is  $(2, 1)$ , then

$$(x+X)/2 = 2, \quad (0-2X)/2 = 1.$$

The second equation implies that  $X = -1$ , and the second then implies that  $x = 5$ . Thus  $P$  is  $(5, 0)$ .

47.  $\sqrt{(x-2)^2 + y^2} = 4$  says that the distance of  $(x, y)$  from  $(2, 0)$  is 4, so the equation represents a circle of radius 4 centred at  $(2, 0)$ .

48.  $\sqrt{(x-2)^2 + y^2} = \sqrt{x^2 + (y-2)^2}$  says that  $(x, y)$  is equidistant from  $(2, 0)$  and  $(0, 2)$ . Thus  $(x, y)$  must lie on the line that is the right bisector of the line from  $(2, 0)$  to  $(0, 2)$ . A simpler equation for this line is  $x = y$ .

49. The line  $2x + ky = 3$  has slope  $m = -2/k$ . This line is perpendicular to  $4x + y = 1$ , which has slope  $-4$ , provided  $m = 1/4$ , that is, provided  $k = -8$ . The line is parallel to  $4x + y = 1$  if  $m = -4$ , that is, if  $k = 1/2$ .

50. For any value of  $k$ , the coordinates of the point of intersection of  $x + 2y = 3$  and  $2x - 3y = -1$  will also satisfy the equation

$$(x + 2y - 3) + k(2x - 3y + 1) = 0$$

# Physics Calculus Solution Manual

**John R. Gordon**



## **Physics Calculus Solution Manual:**

## **Physics Calculus Solution Manual** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Physics Calculus Solution Manual**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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