

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.

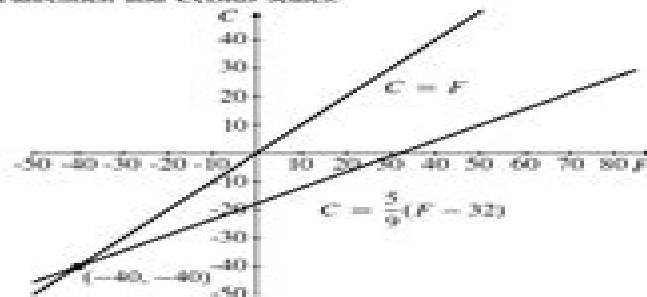


Fig. P.2-40

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

**DP Hallahan**



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