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

$$10,000.4 + B = 5,000$$

 $15,000.4 + B = 6,000$

Subtracting these equations gives 5,000.4 = 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° and —40° is the same temperature on both the Fahrenheit and Celsius scales.

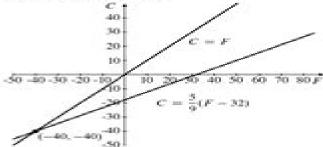


Fig. P.2-40

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

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

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 P₁P₂, then the displacement of M from P₁ equals the displacement of P₂ from M:

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

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 P₁P₂ that is two thirds of the way from P₁ to P₂, then the displacement of Q from P₁ equals twice the displacement of P₂ 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 $y_q = (y_1 + 2x_2)/3$.

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

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

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

- 47. √(x-2)² + y² = 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. √(x-2)² + y² = √x² + (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

Douglas C. Giancoli

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web routine converts an 8 bit binary number to a two digit bcd number the listing of these routines are given in appendices g and h the performance specs for the routines are shown below table 7 performance specs figure 2 flowchart for binary to bcd conversion spec program memory instruction cycles binary 8 bit to bcd 10 81

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web oct 18 2023 binary number to decimal number try it the idea is to extract the digits of a given binary number starting from the rightmost digit and keep a variable dec value at the time of extracting digits from the binary number multiply the digit with the proper base power of 2 and add it to the variable dec value

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web when we convert numbers from binary to decimal or decimal to binary subscripts are used to avoid errors converting binary to decimal base 2 to base 10 or decimal to binary numbers base10 to base 2 can be done in a

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web binary conversion bcd2bin8 this subroutine converts a 2 digit bcd number to an 8 bit binary value the implemen tation does not accept a packed bcd input i e the two digits must be represented in two separate bytes to accomplish this some modifications will have to be made to the algorithm as shown in the following section

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web let s create binary to decimal number converter flowchart using raptor flowchart application example binary to decimal conversion binary 101 decimal $1\ 2\ 2\ 0\ 2\ 1\ 1\ 2\ 0\ 4\ 0\ 1\ 5$

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web i believe your question was how to perform multiplication using the hexadecimal numbers not converting them into decimal or binary first if this is correct then the following work shows the steps

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