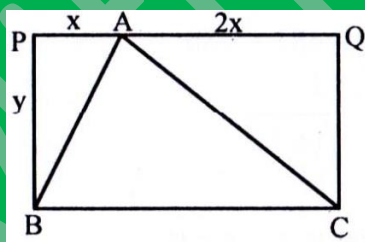


Work Sheet – 02 (Higher Mathematics) for class – Nine (29.09.2020), Chapter – Five, Exercise- 5.5, Equation

Creative Questions:

1. (i) $(\sqrt{3})^{z+5} = (\sqrt[3]{3})^{2z+5}$
 (ii) $\frac{x+y}{x-y} + \frac{x-y}{x+y} = \frac{5}{2}$
 (iii) $x^2 + y^2 = 90$
- a) Find the value of z from equation (i).
 b) Solve the equation (ii) and (iii).
 c) If the positive value of x and y are the adjacent sides of any quadrilaterals and the included angle between the adjacent sides is 90° then write down the name of the quadrilateral. Find the area, perimeter and length of the diagonal of the quadrilateral.

2.



In the above figure area of the rectangle is 180 square unit.

- a) Form the equation using the information's given by stimulus.
 b) Express the perimeter of the triangle ΔABC in terms of x and y .

- c) If the length of the line AB is 13 unit, find the perimeter of the triangle ΔABC .