

Andhra Pradesh Board
Class X Mathematics
Sample Paper – 1 | Paper I Solution

- I. Answer all the following questions. Each question carries 1 mark. [7 × 1 = 7]

1.

$$\begin{aligned} & \log_{10} 5 + 2 \log_{10} 4 \\ &= \log_{10} 5 + \log_{10} 4^2 \\ &= \log_{10} 5 + \log_{10} 16 \\ &= \log_{10} (5 \times 16) \\ &= \log_{10} 80 \end{aligned}$$

2. $P = \{1, 2, 3, 4\}$

$Q = \{4, 5, 6, 7\}$

$P - Q = \{1, 2, 3\}$

3. Let the quadratic polynomial be $ax^2 + bx + c$, $a \neq 0$ and its zeroes be α and β . Then, we have

$$\alpha + \beta = -7 = \frac{-b}{a} \text{ and } \alpha\beta = -2 = \frac{c}{a}$$

We know $x^2 - (\alpha + \beta)x + \alpha\beta = 0$

One quadratic polynomial which fits the given condition is $x^2 + 7x - 2$.

4. From the given information, we have

$x + 5 = 2y$

$\Rightarrow x = 2y - 5$

5.

Equation is $3x^2 - 2\sqrt{6}x + 2 = 0$.

Here, $a = 3$, $b = -2\sqrt{6}$, $c = 2$

Thus, $b^2 - 4ac = (-2\sqrt{6})^2 - 4(3)(2) = 24 - 24 = 0$

$$\Rightarrow x = \frac{2\sqrt{6} \pm \sqrt{0}}{6} = \frac{\sqrt{6}}{3} = \frac{\sqrt{3} \times \sqrt{2}}{\sqrt{3} \times \sqrt{3}} = \frac{\sqrt{2}}{\sqrt{3}}$$

So, the roots are $\frac{\sqrt{2}}{\sqrt{3}}$ and $\frac{\sqrt{2}}{\sqrt{3}}$.

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