

**CBSE Class 10 Maths (Standard)
Question Paper 2020 Set 3**

CLASS: X

**MATHEMATICS STANDARD
SET 3 SOLVED (CODE : 30/5/3)**

General Instructions:

Read the following instructions very carefully and strictly follow them:

- This question paper comprises four sections – A, B, C and D. This question paper carries 40 questions. All questions are compulsory.
- Section A: Question numbers 1 to 20 comprises of 20 questions of one mark each.
- Section B: Question numbers 21 to 26 comprises of 6 questions of two marks each.
- Section C: Question numbers 27 to 34 comprises of 8 questions of three marks each.
- Section D: Question numbers 35 to 40 comprises of 6 questions of four marks each.
- There is no overall choice in the question paper. However, an internal choice has been provided in 2 questions of one mark, 2 questions of two marks, 3 questions of three marks and 3 questions of four marks. You have to attempt only one of the choices in such questions.
- In addition to this, separate instructions are given with each section and question, wherever necessary.
- Use of calculators is not permitted.

SECTION – A

Question numbers 1 to 20 carry 1 mark each.

Question numbers 1 to 10 are multiple choice questions.

Choose the correct option.

- The value(s) of k for which the quadratic equation $2x^2 + 5x + 2 = 0$ has equal roots, is
(a) 4 (b) ± 4 (c) -4 (d) 0
- Which of the following is **not** an A.P.?
(a) -1.2, 0.8, 2.8, (b) $3, 3 + \sqrt{2}, 3 + 2\sqrt{2}, 3 + 3\sqrt{2}, \dots$
(c) $\frac{4}{3}, \frac{7}{3}, \frac{9}{3}, \frac{12}{3}, \dots$ (d) $\frac{-1}{5}, \frac{-2}{5}, \frac{-3}{5}, \dots$
- The radius of sphere (in cm) whose volume is $12\pi \text{ cm}^3$, is
(a) 3 (b) $3\sqrt{3}$ (c) $3^{2/3}$ (d) $3^{1/3}$
- The distance between the points $(m, -n)$ and $(-m, n)$ is
(a) $\sqrt{m^2 + n^2}$ (b) $m + n$ (c) $2\sqrt{m^2 + n^2}$ (d) $\sqrt{2m^2 + 2n^2}$
- In Figure-1, from an external point P , two tangents PQ and PR are drawn to a circle of radius 4 cm with centre O . If $\angle QPR = 90^\circ$, then length of PQ is
(a) 3 cm (b) 4 cm (c) 2 cm (d) $2\sqrt{2}$

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