

**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)  $\pm 4$  (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)  $3^{3/5}$
- 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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