

7. A rational number between 2 and 3 is
 (A) 2.010010001... (B) $\sqrt{6}$ (C) $5/2$ (D) $4 - \sqrt{2}$
8. The coefficient of x^2 in $(2x^2-5)(4+3x^2)$ is
 (A) 2 (B) 3 (C) 8 (D) -7
9. In triangles ABC and DEF, $\angle A = \angle D$, $\angle B = \angle E$ and $AB=EF$, then are the two triangles congruent? If yes, by which congruency criterion?
 (A) Yes, by AAS (B) No (C) Yes, by ASA (D) Yes, by RHS
10. Two lines are respectively perpendicular to two parallel lines. Then these lines to each other are
 (A) Perpendicular (B) Parallel
 (C) Intersecting (D) inclined at some acute angle

SECTION - B

Question numbers 11 to 18 carry 2 marks each.

11. x is an irrational number. What can you say about the number x^2 ? Support your answer with examples.
12. Let OA, OB, OC and OD be the rays in the anticlock wise direction starting from OA, such that $\angle AOB = \angle COD = 100^\circ$, $\angle BOC = 82^\circ$ and $\angle AOD = 78^\circ$. Is it true that AOC and BOD are straight lines? Justify your answer.

OR

In $\triangle PQR$, $\angle P=70^\circ$, $\angle R=30^\circ$. Which side of this triangle is the longest? Give reasons for your answer.

13. In Fig. 2, it is given that $\angle 1 = \angle 4$ and $\angle 3 = \angle 2$. By which Euclid's axiom, it can be shown that if $\angle 2 = \angle 4$ then $\angle 1 = \angle 3$.



14. Is $\left(\frac{8}{15}\right)^3 - \left(\frac{1}{3}\right)^3 - \left(\frac{1}{5}\right)^3 = \frac{8}{75}$?

How will you justify your answer, without actually calculating the cubes?

15. Evaluate $\left(\frac{-1}{27}\right)^{\frac{-2}{3}}$.

16. In Fig. 3, if $AB \parallel CD$ then find the measure of x .



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web may 27 2021 english the toyota prius is packed with some pretty high tech stuff but at the heart of the hybrid synergy drive hsd is a simple little device called the power split device or psd the psd is a planetary gear set that removes the need for a traditional stepped gearbox and transmission components and also the familiar rev lurch rev lurch