## CHITRA STUDY POINT

## CLASS - IX <br> SUBJECT - MATHS

Q. 1 The value of $\pi$ is
(a) 3.24
(b) 3.242
(c) 3.15
(d) 3.14159265....
Q. 2 Between two irrational numbers $\sqrt{2}$ and $\sqrt{ } 3$, there be
(a) No irrational number
(b) No rational number
(c) Infinite irrational number
(d) only one irrational number.
Q. 3 To determine a line, the number of points required is
(a) 1
(b) 2
(c) 3
(d) Infinite.
Q. 4 If the sides of a triangle are produced in order, then the sum of the exterior angles so formed is equal to
(a) $90^{\circ}$
(b) $180^{\circ}$
(c) $270^{\circ}$
(d) $360^{\circ}$
Q. 5 If $\sqrt{3}=1.732$ and $\sqrt{2}=1.414$ the value of $\frac{\mathbf{1}}{\sqrt{3}-\sqrt{2}}$ is
a. 0.318
(b) 3.146
(c) $1 / 3.146$
(d) $\sqrt{1.732}-\sqrt{1.414}$
Q. 6 The expansion of $(a-2 b-3 c)^{2}$ is -
(a) $a^{2}+2 b^{2}+3 c^{2}+4 a b+12 b c+6 a c$
(b) $\mathrm{a}^{2}+4 \mathrm{~b}^{2}+9 \mathrm{c}^{2}+2 \mathrm{ab}+2 \mathrm{bc}+2 \mathrm{ca}$
(c) $a^{2}-4 b^{2}-9 c^{2}-4 a b+12 b c-6 a c$
(d) $a^{2}+4 b^{2}+9 c^{2}-4 a b+12 b c-6 a c$
Q. 7 Divide $(\sqrt{3}+\sqrt{7})$ by $(\sqrt{3}-\sqrt{7})$.
Q. 8 In fig (4) AB || CD, $\angle \mathrm{APQ}=50^{\circ}$ and $\angle \mathrm{PRD}$ $=120^{\circ}$. Find x and y .

Q. 9 In fig (5) ABCD, is a quadrilateral in which $A B=C D$ and $A C$ bisects angle A. Show that $B C=D C$.

Q. 10 In fig (6) ABCD is a quadrilateral in which $A B=A D$ and $A C$ bisects angle A. Show that $B C=D C$.

Q. 11 The angles of a quadrilateral are in the ratio $3: 4: 5: 6$. Find al the angles of the quadrilateral.

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Q. 12 Factorize : $(\mathrm{x}-\mathrm{y})^{3}+(\mathrm{y}-\mathrm{z})^{3}+(\mathrm{z}-\mathrm{x})^{3}$
Q. 13 Write $(2 x-3 y-4 z)^{2}$ in expanded form.
Q. 14 In a $\triangle A B C, \angle A+\angle B=100^{\circ}$, and $\angle B+\angle C=140^{\circ}$. Find the measure of each of the angles of the triangle.
Q. 15 If $x+y+z=0$ show that $x^{3}+y^{3}+z^{3}=3 x y z$.


[^0]:    CBSE Sample Papers $\mid \underline{\text { CBSE Guess Papers }|\underline{\text { CBSE Practice Papers }}| \underline{I m p o r t a n t ~ Q u e s t i o n s ~}|\underline{\text { CBSE PSA }}| \underline{\text { CBSE OTBA }} \mid}$ Proficiency Test | 10 Years Question Bank \| CBSE Guide \| CBSE Syllabus \| Indian Tutors \| Teacher' Jobs CBSE eBooks | $\underline{\text { Schools }}$ | Alumni | CBSE Results | CBSE Datesheet | CBSE News

