

Q1.

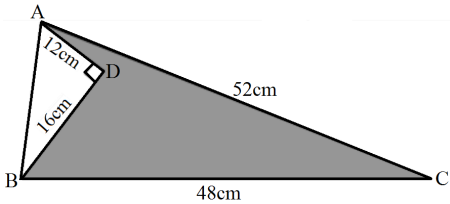
The perimeter of a triangular field is 540m and its sides are in the ratio 25 : 17 : 12. Find the area of the field. Also, find the cost of ploughing the field at ₹ 5 per m².

5 Marks

Q2.

Find the area of the shaded region in the figure given below.

5 Marks



Q3.

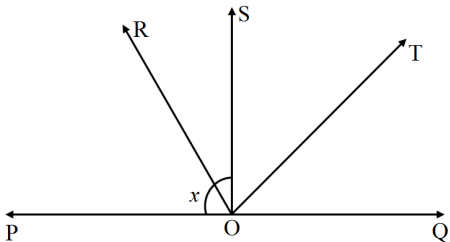
Find the area of the triangle whose sides are 42cm, 34cm and 20cm in length. Hence, find the height corresponding to the longest side.

5 Marks

Q4.

In figure, ray OS stand on a line POQ. Ray OR and ray OT are angle bisectors of ∠POS and ∠SOQ respectively. If ∠POS = x, find ∠ROT.

5 Marks



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Q5.

Using factor theorem, factorize the following polynomials:
 $x^3 - 23x^2 + 142x - 120$

5 Marks

Q6.

Verify that:
 $x^3 + y^3 + z^3 - 3xyz = \frac{1}{2}(x + y + z)[(x - y)^2 + (y - z)^2 + (z - x)^2]$

3 Marks

Q7.

Evaluate the following using identities:
 991×1009

3 Marks

Q8.

Find the value of a such that $(x - 4)$ is a factors of $5x^3 - 7x^2 - ax - 28$.

Q9.

Factorise:
Prove that $\frac{0.85 \times 0.85 \times 0.85 + 0.15 \times 0.15 \times 0.15}{0.85 \times 0.85 - 0.85 \times 0.15 + 0.15 \times 0.15} = 1$

Q10.

If $3x - 2y = 11$ and $xy = 12$, find the value of $27x^3 - 8y^3$.

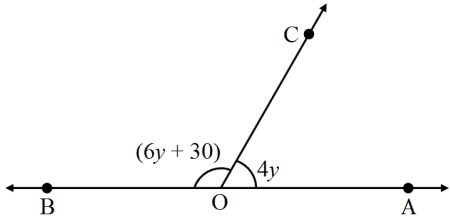
Q11.

Factorize the following expressions:
 $a^3 + 3a^2b + 3ab^2 + b^3 - 8$

Q12.

What value of y would make AOB a line in the below figure, If $\angle AOC = 4y$ and $\angle BOC = (6y + 30)$?

3 Marks



Q13.

Factorise:
 $7(x - 2y)^2 - 25(x - 2y) + 12$

3 Marks

Q14.

Find the value of m for which $(2x - 1)$ is a factor of $(8x^4 + 4x^3 - 16x^2 + 10x + m)$.

3 Marks

Q15.

In figure, show that $AB \parallel EF$.

3 Marks

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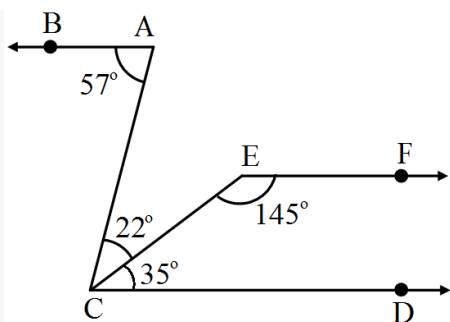
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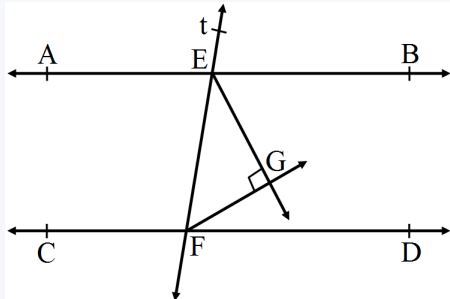
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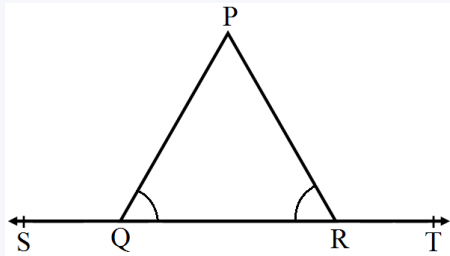
Q16. Write the following cubes in expanded form:
 $(2a - 3b)^3$ 3 Marks

Q17. In the given figure, $AB \parallel CD$ transversal t cuts them at E and F respectively. If EG and FG are the bisectors of $\angle BEF$ and $\angle EFD$ respectively, prove that $\angle EGF = 90^\circ$. 3 Marks



Q18. If $a + b + c = 5$ and $ab + bc + ca = 10$, then prove that $a^3 + b^3 + c^3 - 3abc = -25$. 3 Marks

Q19. In Fig $\angle PQR = \angle PRQ$, then prove that $\angle PQS = \angle PRT$. 3 Marks



Q20. Expand the following, using suitable identities:
 $(-2x + 3y + 2z)^2$ 3 Marks

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