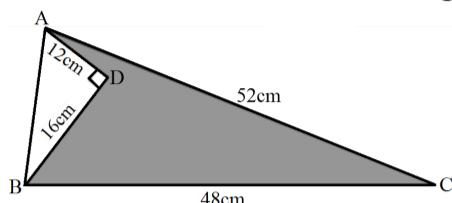


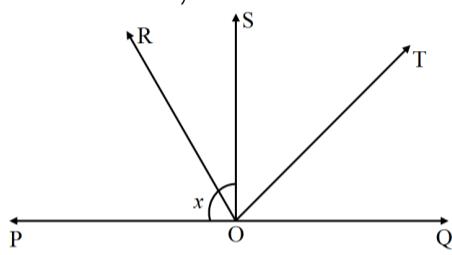
- Q1.** The perimeter of a triangular field is 540m and its sides are in the ratio 25 : 17 : 12. Find the area of the field. Also, find the cost of ploughing the field at ₹ 5 per  $\text{m}^2$ . **5 Marks**

- 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  $\angle POS$  and  $\angle SOQ$  respectively. If  $\angle POS = x$ , find  $\angle ROT$ . **5 Marks**



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- Q5.** Using factor theorem, factorize the following polynomials: **5 Marks**  
 $x^3 - 23x^2 + 142x - 120$

- Q6.** Verify that: **3 Marks**

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

- Q7.** Evaluate the following using identities: **3 Marks**  
 $991 \times 1009$

- Q8.** Find the value of  $a$  such that  $(x - 4)$  is a factor of  $5x^3 - 7x^2 - ax - 28$ . **3 Marks**

- Q9.** Factorise:

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

- Q10.** If  $3x - 2y = 11$  and  $xy = 12$ , find the value of  $27x^3 - 8y^3$ . **3 Marks**

- Q11.** Factorize the following expressions:

$$a^3 + 3a^2b + 3ab^2 + b^3 - 8$$

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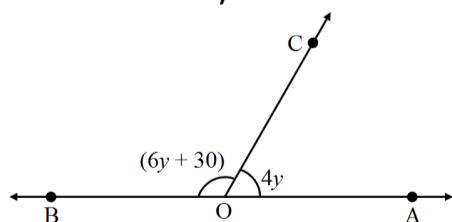
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- Q12.** What value of  $y$  would make  $AOB$  a line in the below figure, If  $\angle AOC = 4y$  and  $\angle BOC = (6y + 30)$ ? **3 Marks**

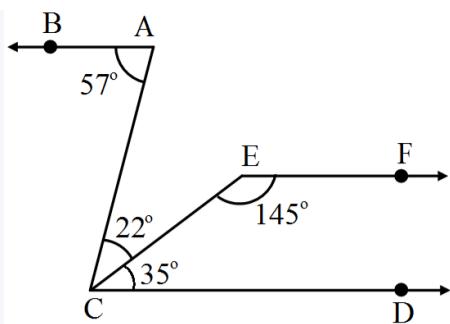


- Q13.** Factorise: **3 Marks**

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

- Q14.** Find the value of  $m$  for which  $(2x - 1)$  is a factor of  $(8x^4 + 4x^3 - 16x^2 + 10x + m)$ . **3 Marks**

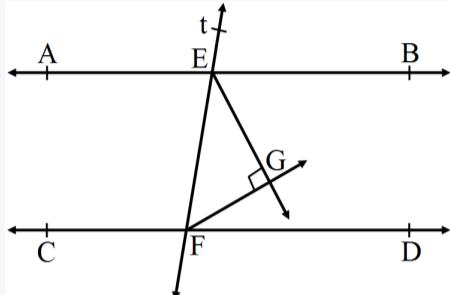
- Q15.** In figure, show that  $AB \parallel EF$ . **3 Marks**



Q16. Write the following cubes in expanded form: 3 Marks

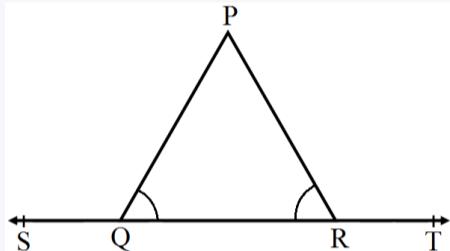
$$(2a - 3b)^3$$

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: 3 Marks

$$(-2x + 3y + 2z)^2$$

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