27. If $(x^2y + y^2 + 3)$ is subtracted from $(3x^2y + 2y^2 + 5)$, then coefficient of y in the result is _____.

28. $-a - b - c$ is same as $-a - (\ \_\_\_\_\_\ )$.

58. Subtract

(e) $ab - bc - ca$ from $-ab + bc + ca$.

(f) $-2a^2 - 2b^2$ from $-a^2 - b^2 + 2ab$.

83. A wire is $(7x - 3)$ metres long. A length of $(3x - 4)$ metres is cut for use. Now, answer the following questions:

(a) How much wire is left?

(b) If this left out wire is used for making an equilateral triangle. What is the length of each side of the triangle so formed?

16. In Fig. 9.21, if PR = 12 cm, QR = 6 cm and PL = 8 cm, then QM is

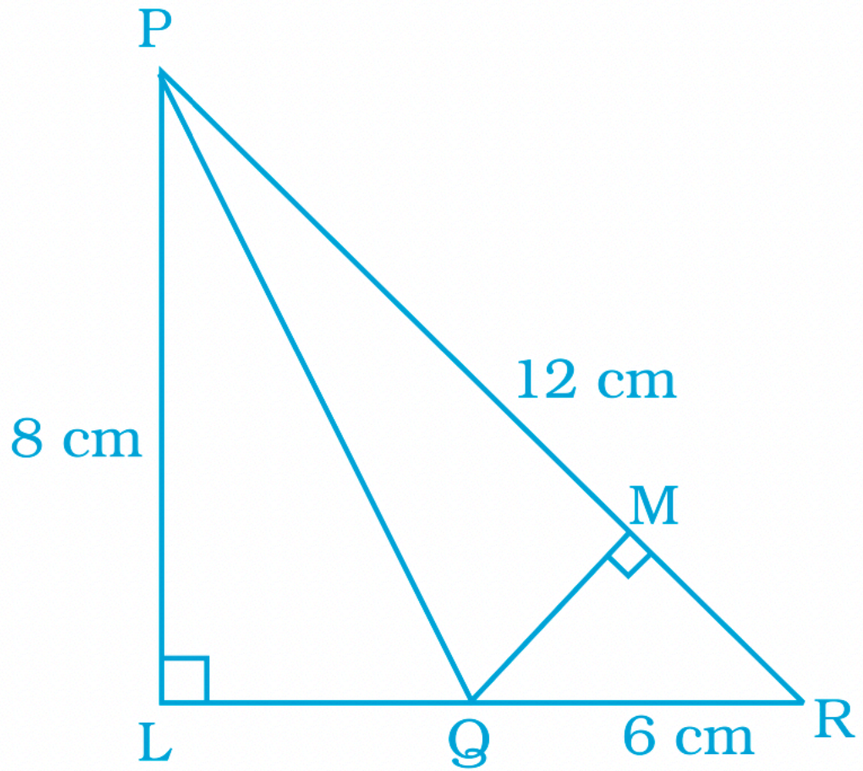

Fig. 9.21

(a) 6 cm (b) 9 cm (c) 4 cm (d) 2 cm

31. What will be the area of the largest square that can be cut out of a circle of radius 10 cm?

(a) 100 cm^2 (b) 200 cm^2 (c) 300 cm^2 (d) 400 cm^2

88. Area of an isosceles triangle is 48 cm^2. If the altitudes corresponding to the base of the triangle is 8 cm, find the perimeter of the triangle.

15. Which of the following is not equal to 1 ?

(a) $\frac{2^3 \times 3^2}{4 \times 18}$

(b) $\left[(-2)^3 \times (-2)^4\right] \div (-2)^7$

(c) $\frac{3^0 \times 5^3}{5 \times 25}$

(d) $\frac{2^4}{(7^0 + 3^0)^3}$

71. Find the reciprocal of the rational number $\left(\frac{1}{2}\right)^2 \div \left(\frac{2}{3}\right)^3$

85. Evaluate

(f) $\dfrac{15^4 \times 18^3}{3^3 \times 5^2 \times 12^2}$