#### Example 11:

In Fig. 9.10, ABCD is a parallelogram, in which AB = 8 cm, AD = 6 cm and altitude AE = 4 cm. Find the altitude corresponding to side AD.

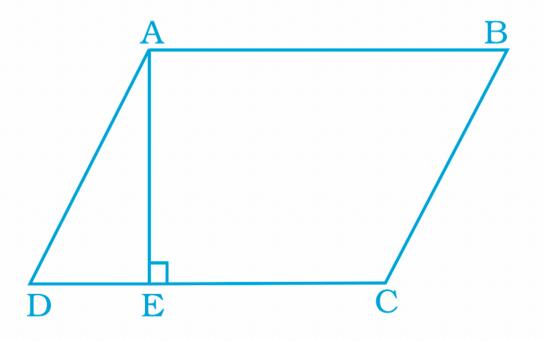


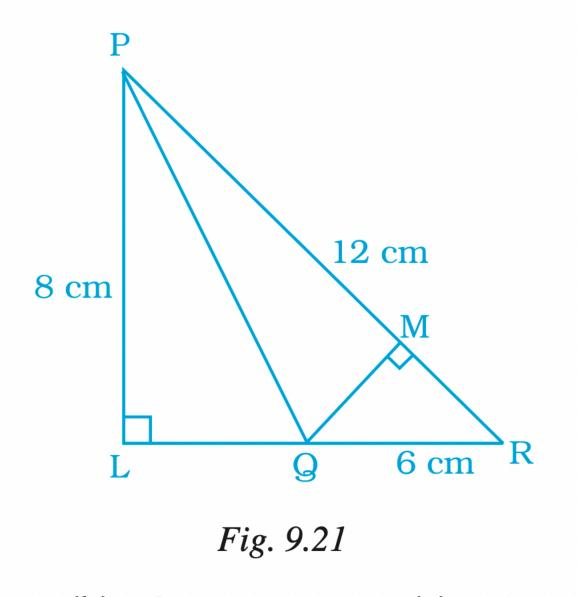
Fig. 9.10

## 13. In reference to a circle the value of $\pi$ is equal to

(a) 
$$\frac{\text{area}}{\text{circumference}}$$
 (b)  $\frac{\text{area}}{\text{diameter}}$  (c)  $\frac{\text{circumference}}{\text{diameter}}$  (d)  $\frac{\text{circumference}}{\text{radius}}$ 

- 14. Circumference of a circle is always(a) more than three times of its diameter
  - (b) three times of its diameter
    - (c) less than three times of its diameter
  - (d) three times of its radius

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



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

### **58.** Subtract

```
(g) x^3y^2 + 3x^2y^2 - 7xy^3 from x^4 + y^4 + 3x^2y^2 - xy^3.
(h) 2(ab + bc + ca) from -ab - bc - ca.
```

### **76.** Express the following in exponential form :

- 96. A googol is the number 1 followed by 100 zeroes.(a) How is a googol written as a power?
- (b) How is a googol written as a power?

# **84.** Simplify and express each of the following in exponential form:

(e)  $\left[ \left( \frac{3}{5} \right)^3 \times \left( \frac{3}{5} \right)^8 \right] \div \left[ \left( \frac{3}{5} \right)^2 \times \left( \frac{3}{5} \right)^4 \right]$ 

(f)  $(5^{15} \div 5^{10}) \times 5^5$ 

**72.** What is the cost of 27.5 m of cloth at ₹ 53.50 per metre?

(b) the radius is of the chir.