EXERCISE 9.2

Write True or False and justify your answer:

- 1. ABCD is a parallelogram and X s the mid-point of AB. If $ar(AXCD) = 24 \ cm^2$, then ar $(ABC) = 24 \ cm^2$.
- 2. PQRS is a rectangle inscribed in a quadrant of a circle of radius 13 cm. A is any point on PQ. If PS = 5 cm, then ar (PAS) = 30 cm².
- 3. PQRS is a parallelogram whose area is 180 cm^2 and A is any point on the diagonal QS. The area of $\triangle ASR=90$ cm^2 .
- 4. ABC and BDE are two equilateral triangles such that D is the mid-point of BC. Then

$$ar(BDE) = \frac{1}{4}ar(ABC). \tag{1}$$

5. In Fig. $\ref{eq:condition}$, ABCD and EFGD are two parallelograms and G is the mid-point of CD. Then

$$ar(DPC) = \frac{1}{2}ar(EFGD).$$
 (2)

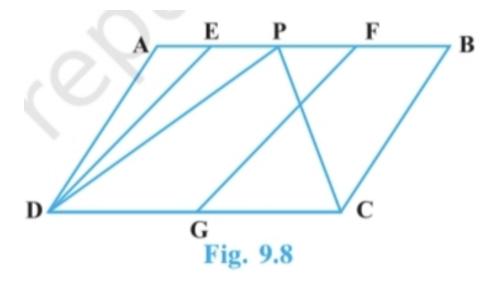


Figure 1: