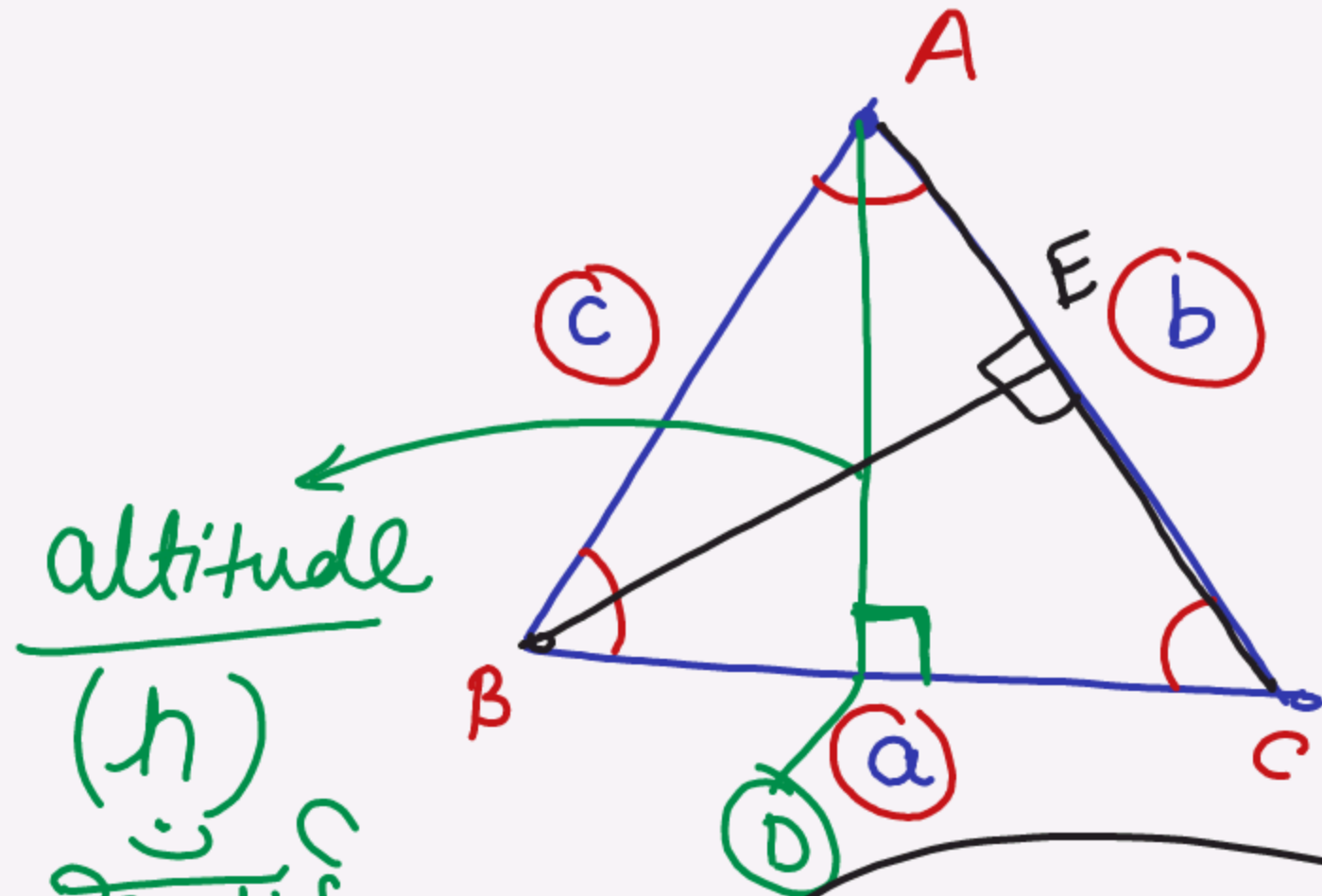


Triangle (त्रिभुज)



altitude
(h)
ऊँचाई

Area
(क्षेत्रफल)

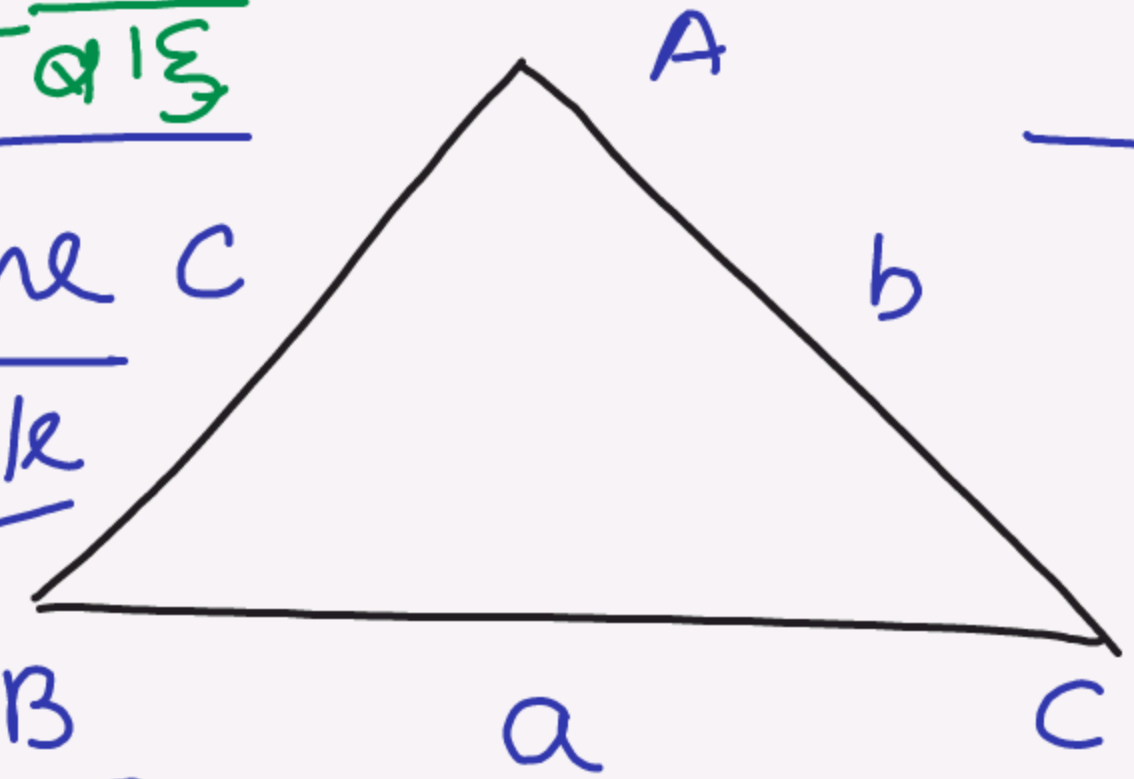
$$= \frac{1}{2} \times BC \times AD$$

$$\frac{1}{2} \times \text{Base} \times \text{altitude}$$

$$\Delta = \frac{1}{2} \times AC \times BE$$

विषमबाहु

Scalene
Triangle



परिमाप
Perimeter = $a+b+c$

$$S = \frac{a+b+c}{2}$$

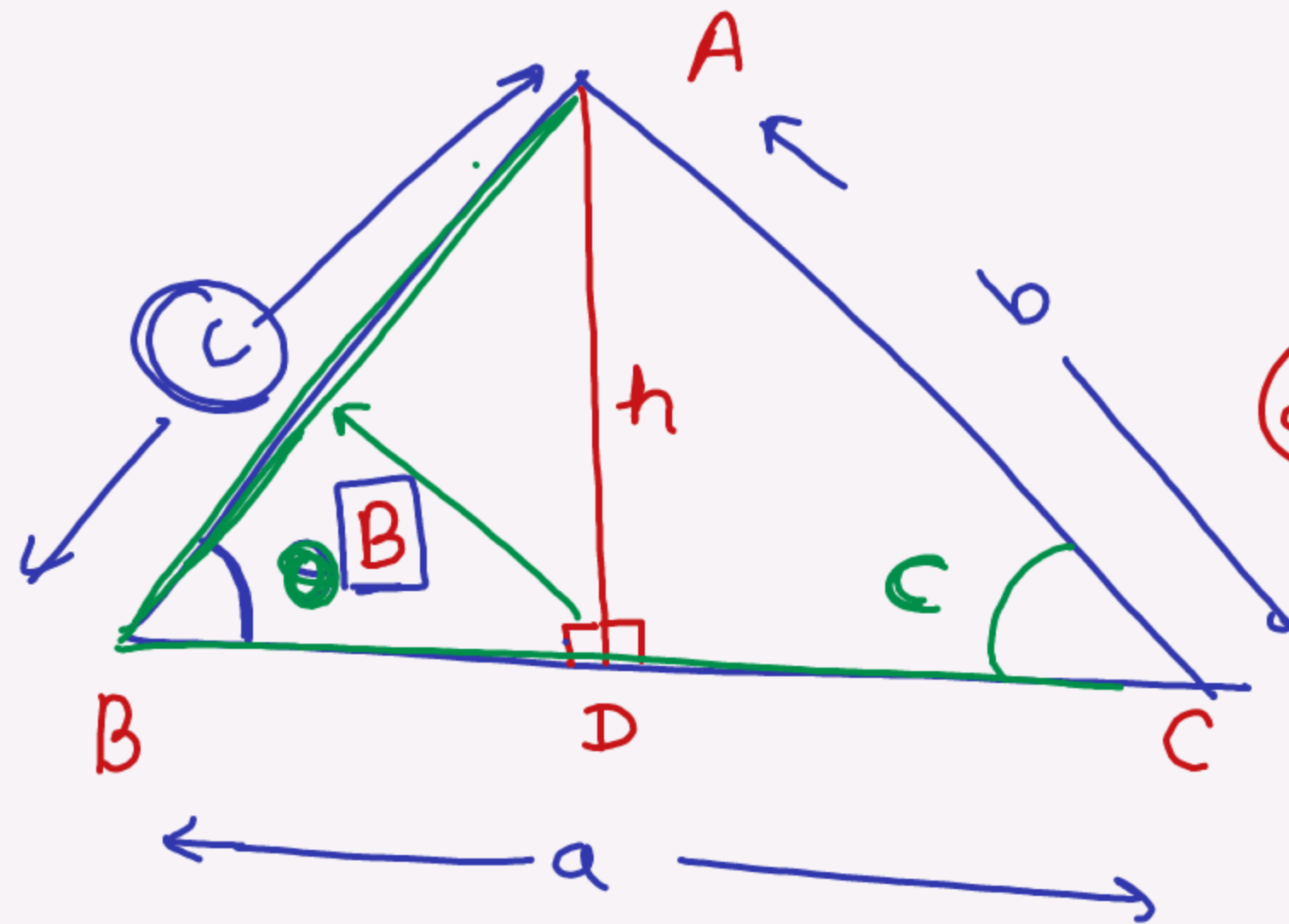
Semi (अर्धपरिमाप)
Perimeter

$$a \neq b \neq c$$

Area \Rightarrow

(Heron's
formula)

$$s(s-a)(s-b)(s-c)$$



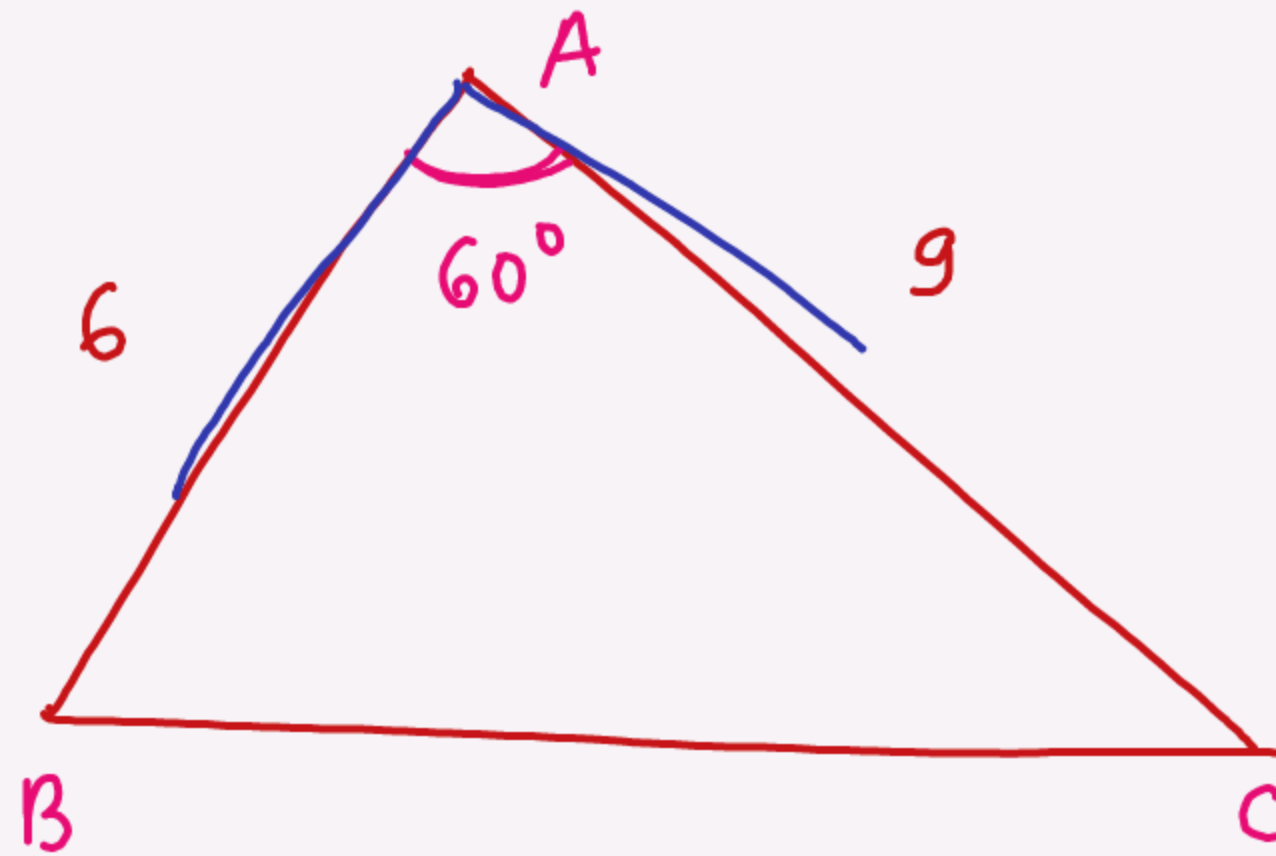
$$\textcircled{1} \Delta = \frac{1}{2} ah$$

$$\textcircled{2} \Delta = \frac{1}{2} BC \times AD$$

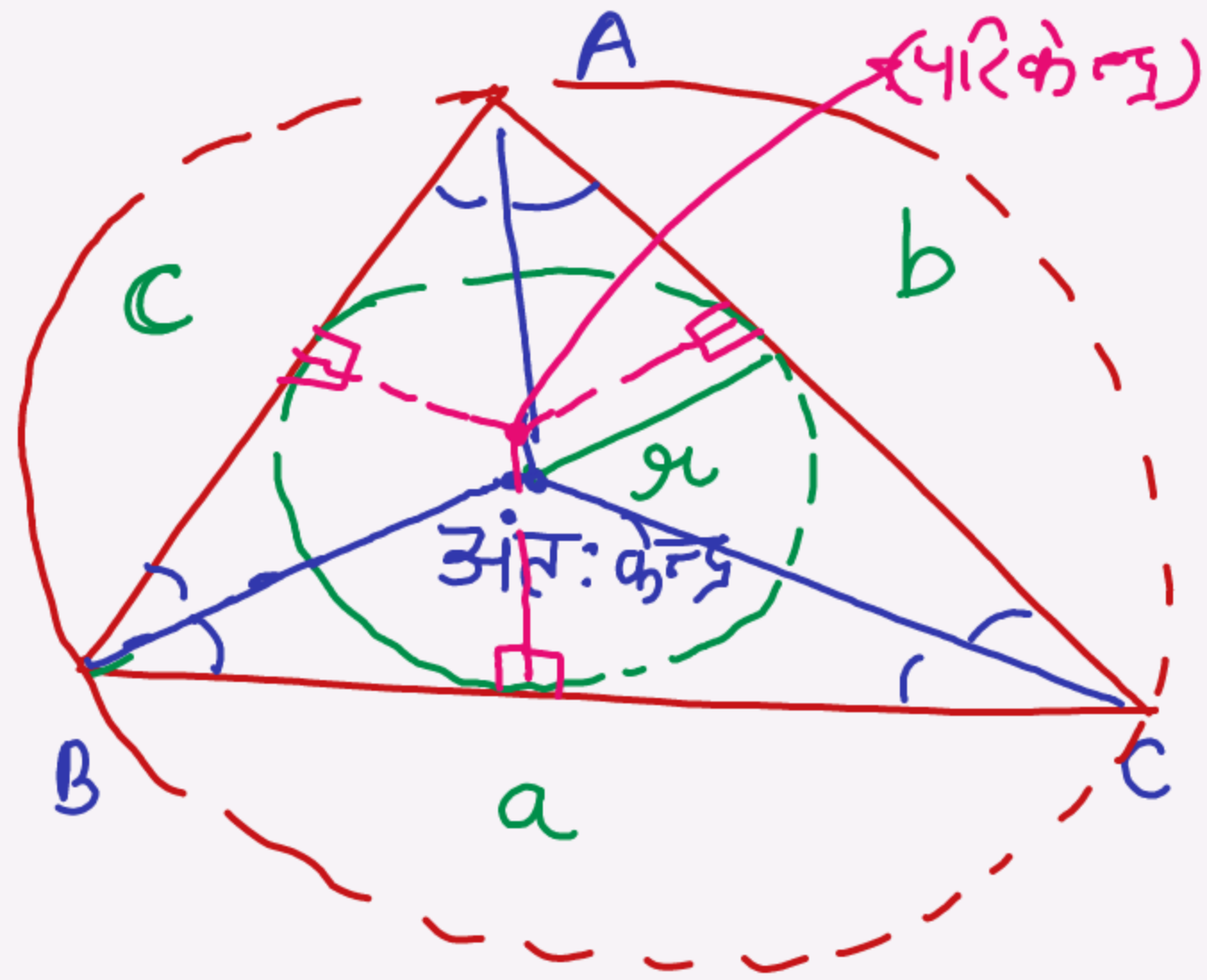
$$\Delta = \frac{1}{2} \times \underline{BC} \times \underline{AB} \sin B$$

$$\boxed{\sin B} = \frac{L}{K} = \frac{P}{H} = \frac{h}{c} = \frac{AD}{AB}$$

$$\Delta = \frac{1}{2} AC \times BC \sin C$$



Area $\Rightarrow \frac{1}{2} \times 6 \times 9 \times \sin 60^\circ$
 \cup $\frac{27\sqrt{3}}{2}$



$\Delta \rightarrow$ Area (क्षेत्र)

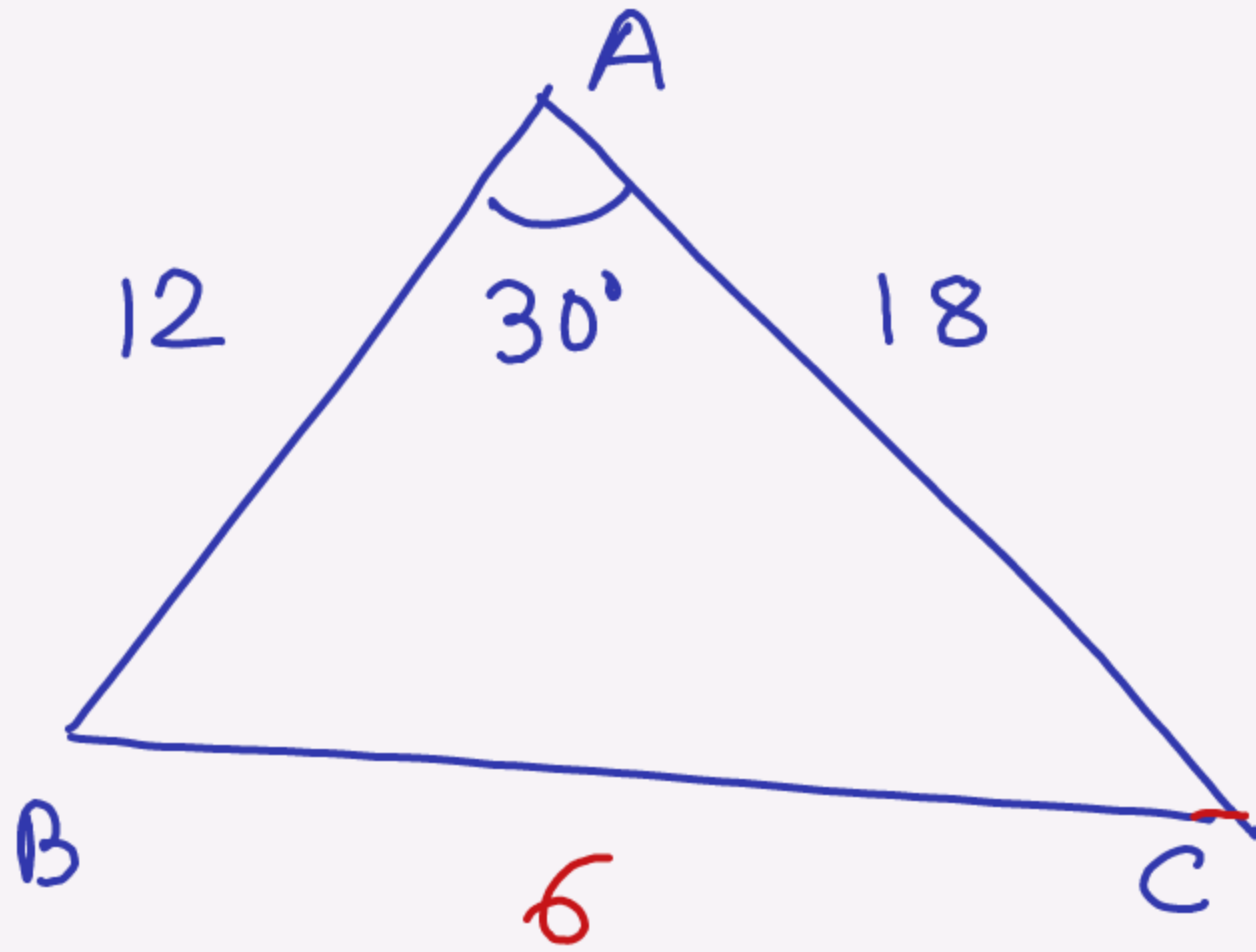
$$r = \frac{\Delta}{s}$$

$$s = \frac{a+b+c}{2}$$

$$R = \frac{abc}{4\Delta}$$

Incentre = Circumcentr
 अंतः केंद्र = परिकेंद्र

Circum Radius
 परिकेंद्र



$$r = ?$$

$$R = ?$$

$$\Delta = \text{Area} = ?$$