



$$\begin{aligned} \underline{\Delta I} \quad s &= \frac{a+b+c}{2} \\ &= \frac{1+5+5}{2} \\ &= \frac{11}{2} \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{area of } \Delta I &= \sqrt{\frac{11}{2} \left(\frac{11}{2}-1\right) \left(\frac{11}{2}-5\right) \left(\frac{11}{2}-5\right)} \\ &= \sqrt{\frac{11}{2} \times \frac{11-2}{2} \times \frac{11-10}{2} \times \frac{11-10}{2}} \\ &= \sqrt{\frac{11}{2} \times \frac{9}{2} \times \frac{1}{2} \times \frac{1}{2}} \\ &= \frac{3}{4} \sqrt{11} \text{ cm}^2 \end{aligned}$$