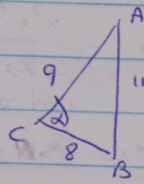
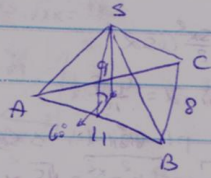


4.23
6



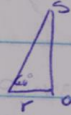
Prizma 12/27 . 6

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$$|21 = 64 + 81 - 2 \cdot 7 \cdot 2 \cos \alpha \rightarrow \cos \alpha = \frac{24}{144} = \frac{1}{6} \rightarrow \sin \alpha = \frac{\sqrt{35}}{6}$$

$$S_{ABC} = \frac{AC \cdot BC \cdot \sin \alpha}{2} = \frac{9 \cdot 8 \cdot \sin \alpha}{2} = 6\sqrt{35}$$

$$S_{ABC} = rP \rightarrow r = \frac{6\sqrt{35}}{P} = \frac{6\sqrt{35}}{14} = \frac{3\sqrt{35}}{7} \quad \text{je. 234}$$



$$SO = r \tan 60 = \frac{3\sqrt{35}}{7} \cdot \sqrt{3} = \frac{3\sqrt{105}}{7}$$

$$V = \frac{1}{3} S_{ABC} \cdot SO = \frac{1}{3} \cdot 6\sqrt{35} \cdot \frac{3\sqrt{105}}{7} = 6\sqrt{75} = 30\sqrt{3}$$