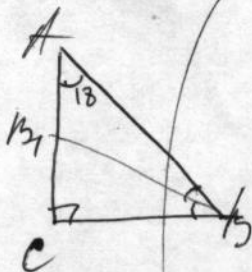


$$a) \angle A = 90 - \angle B = 90 - 75 = 25^\circ$$

$$b) \angle B = \angle A + 10 \rightarrow \begin{aligned} \angle A + \angle B &= 90 \\ \angle A + \angle A + 10 &= 90 \\ 2\angle A &= 80 \Rightarrow \angle A = 40^\circ \end{aligned}$$



$$\angle AB_1B = \frac{90 - 18}{2} = 36 = \angle B_1BC \text{ (т.к. } BB_1 - \text{биссек.)}$$

$$\angle AB_1B = 180 - 18 - 36 = 126^\circ \text{ (из суммы углов } \triangle AB_1B)$$

$$\angle CB_1B = 180 - 126 = 54^\circ$$

$$\triangle AB_1B: \angle A = 18^\circ$$

$$\angle AB_1B = 36^\circ$$

$$\angle AB_1B = 126^\circ$$

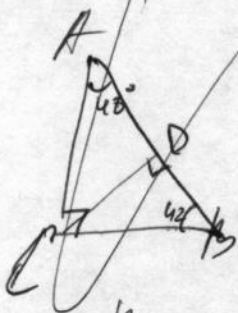
$$\triangle BB_1C: \angle C = 90$$

$$\angle CB_1B = 54^\circ$$

$$\angle B_1BC = 36$$

$$\angle B = 90 - 48 = 42^\circ$$

$$\angle BCP = 90 - 42 = 48^\circ$$



пусть $t = \sqrt{2+\sqrt{3}}$

$$u = \sqrt{2+\sqrt{2+\sqrt{3}}} = \sqrt{2+t} \Rightarrow$$

$$\begin{aligned} t \cdot u \cdot \sqrt{2+u} \cdot \sqrt{2-u} &= t \cdot u \cdot \sqrt{(2+u)(2-u)} = t \cdot u \sqrt{4-u^2} = \\ &= t \cdot u \cdot \sqrt{4-12+t} = t \cdot \sqrt{2+t} \cdot \sqrt{2-t} = t \cdot \sqrt{4-t^2} = \sqrt{2+\sqrt{3}} \cdot \sqrt{4-12+\sqrt{3}} = \end{aligned}$$

↓
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$$= \sqrt{2+\sqrt{3}} \cdot \sqrt{2-\sqrt{3}} = \sqrt{(2+\sqrt{3})(2-\sqrt{3})} = \sqrt{4-3} = 1$$