19.10. ОРТОГОНАЛНА ПРОЈЕКЦИЈА

ВЕЖБАЊЕ

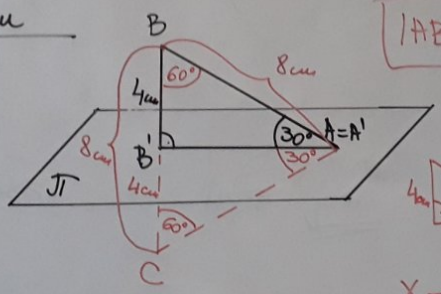
84.) $A \in \pi$

$|BB'| = 4\,cm$

$|AB| - ?$

$|A'B'| - ?$

2) $\alpha = 30°$



$h = \frac{a\sqrt{3}}{2}$

$\triangle ABC \rightarrow$ ЈЕД. НАКОСТР.

$|AB| = 8\,cm$

$8^2 = 4^2 + x^2$

$x^2 = 64 - 16$

$x^2 = 48$

$x = \sqrt{48} = \sqrt{16 \cdot 3} = \sqrt{16} \cdot \sqrt{3} = 4\sqrt{3}$

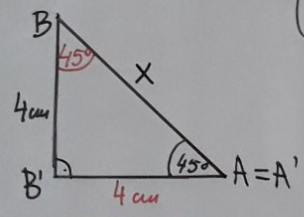
$x = |A'B'|$

$|A'B'| = 4\sqrt{3}\,cm$

ОРТОГОНАЛНА ПРОЈЕКЦИЈА
ВЕЖБАЊЕ

84.

Б) $\alpha = 45°$ $\quad (d = a\sqrt{2})$



$|A'B'| = 4\,cm$

$x^2 = 4^2 + 4^2$

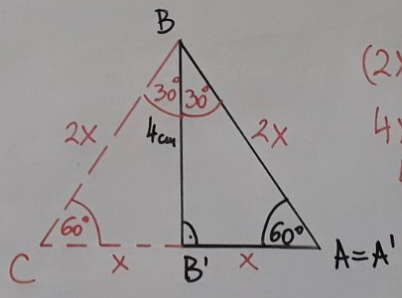
$x^2 = 32$

$x = \sqrt{32}$

$x = 4\sqrt{2}$

$|AB| = 4\sqrt{2}\,cm$

В) $\alpha = 60°$



$(2x)^2 = x^2 + 4^2$

$4x^2 = x^2 + 16$

$4x^2 - x^2 = 16$

$3x^2 = 16$

$x^2 = \frac{16}{3}$

$x = \sqrt{\frac{16}{3}}$

$x = \frac{4}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{4\sqrt{3}}{3}$

$|A'B'| = \frac{4\sqrt{3}}{3}\,cm$

$|AB| = 2 \cdot \frac{4\sqrt{3}}{3}$

$|AB| = \frac{8\sqrt{3}}{3}\,cm$

1. ОМ. **88.**