Допунска настава: А

81. б) $A'B' = 12\,cm$

$AA' = 10\,cm$

$BB' = 5\,cm$

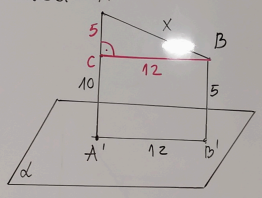
$AB = ?$

ΔABC:

$x^2 = 12^2 + 5^2 = 144 + 25 = 169$

$x = \sqrt{169} = 13$

$AB = 13\,cm$



85. б) $AA' = 3\,cm$

$BB' = 8\,cm$

$A'B' = 12\,cm$

$AB = ?$

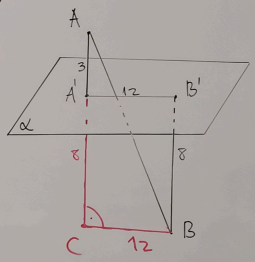
ΔACB:

$AC = 11\,cm$

$CB = 12\,cm$

$AB^2 = AC^2 + BC^2 = 11^2 + 12^2 = 121 + 144 = 265$

$AB = \sqrt{265}\ cm$

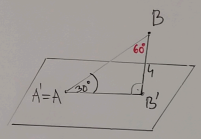


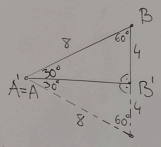
84. $A \in \Pi$

$BB' = 4\,cm$

$AB = ?,\ A'B' = ?$

а)





ΔABC – једнакостранични Δ

$BC = 8\,cm$

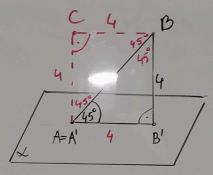
$AB = AC = BC$

$AB = 8\,cm$

$A'B'^2 = 8^2 - 4^2 = 64 - 16 = 48$

$A'B' = \sqrt{48} = \sqrt{16 \cdot 3} = 4\sqrt{3}$

б)



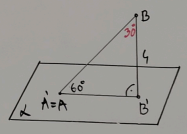
$A'B' = BB' = 4\,cm$

$AB^2 = A'B'^2 + BB'^2$

$AB^2 = 4^2 + 4^2 = 16 + 16 = 32$

$AB = \sqrt{32} = \sqrt{16 \cdot 2} = 4\sqrt{2}\ cm$

в)



$\Delta B'CB$:

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

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

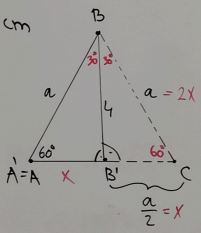
$4x^2 - x^2 = 16$

$3x^2 = 16$

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

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

$a = 2x = \frac{8\sqrt{3}}{3}$

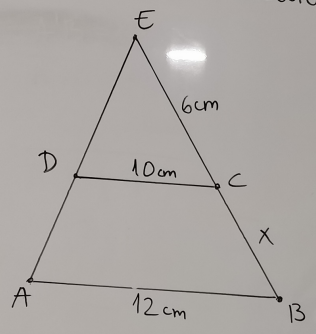


$\Rightarrow AB = \frac{8\sqrt{3}}{3}\ cm$

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

Допунска настава:

1.



$EC:EB = DC:AB = ED:EA$

$6:(6+x) = 10:12$

$10\cdot(6+x) = 12\cdot 6$

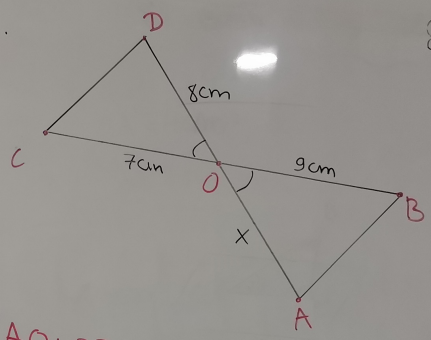
$60 + 10x = 72$

$10x = 72 - 60$

$10x = 12$

$x = \frac{12}{10} = 1{,}2\,cm$

2.



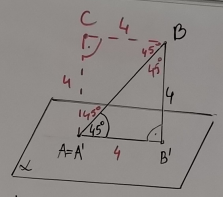
$AO:OD = BO:OC$

$x:8 = 9:7$

$7x = 72$

$x = \frac{72}{7}\,cm$

б)



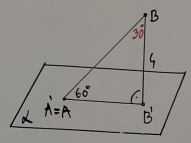
$A'B' = BB' = 4cm$

$AB^2 = A'B'^2 + BB'^2$

$AB^2 = 4^2 + 4^2 = 16 + 16 = 3$

$AB = \sqrt{32} = \sqrt{16\cdot 2} = 4$

в)



$\Delta B'CB$:

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

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

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

$3x^2 = 16$

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

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

$a = 2x = \frac{8\sqrt{3}}{3}$