Prof. Micu Elena
Micu Elena

Fișa nr. 15. Geometrie plană

Clasa a VI-a

Bisectoarea unui unghi – răspunsuri

Item	**Răspuns**	**Rezolvare**
1	$42°$; $42°$	$m(\sphericalangle AOM) = m(\sphericalangle MOB) = 84° : 2 = 42°$
2	$63°$	$m(\sphericalangle RKT) = 126° : 2 = 63°$
3	$74°$	$m(\sphericalangle DPF) = 2 \cdot m(\sphericalangle DPE) = 2 \cdot 37° = 74°$
4	$71°$; $142°$	$m(\sphericalangle XQZ) = m(\sphericalangle ZQY) = 71°$; $m(\sphericalangle XQY) = 2 \cdot 71° = 142°$
5	$45°$	$m(\sphericalangle GHL) = 90° : 2 = 45°$
6	$90°$	Unghiul AOB este alungit: $m(\sphericalangle AOC) = 180° : 2 = 90°$, deci $OC \perp AB$.
7	$37°30'$	$75° : 2 = 74°60' : 2 = 37°30'$
8	$56°42'$	$113°24' : 2 = 112°84' : 2 = 56°42'$
9	$x = 24$; $116°$	$2x+10 = 3x-14$, deci $x = 24$; $m(\sphericalangle AOM) = 58°$, $m(\sphericalangle AOB) = 2 \cdot 58° = 116°$
10	$x = 55$; $160°$	$m(\sphericalangle EDF) = 2 \cdot m(\sphericalangle EDK)$: $3x-5 = 2(x+25)$, $3x-5 = 2x+50$, $x = 55$; $m(\sphericalangle EDF) = 3 \cdot 55 - 5 = 160°$

Cerculeț de completat: $42°$, $45°$, $63°$, $71°$, $74°$, $90°$, $116°$, $142°$, $160°$, $37°30'$, $56°42'$.