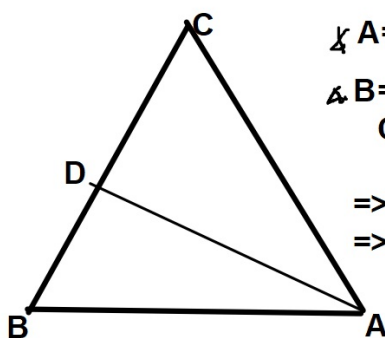




$\angle A = \angle B = 50^\circ$, $AB = 8$ cm AD-биссектриса $AC = ?$ $AD = ?$

$\angle B = \angle A \Rightarrow \triangle ABC$ равнобедренный $\Rightarrow BC = AC$.

$$\angle C = 180^\circ - \angle A - \angle B = 180^\circ - 50^\circ - 50^\circ = 80^\circ$$

$\Rightarrow$ по теореме синусов $BA / \sin C = AC / \sin B$

$$\Rightarrow 8 / \sin 80^\circ = AC / \sin 50^\circ \Rightarrow AC = 8 * \sin 50^\circ / \sin 80^\circ \approx 6.2 \text{ cm}$$

2. AD-биссектриса $\Rightarrow \angle DAB = \angle DAC = 25^\circ$

$$\Rightarrow \angle BDA = 180^\circ - 50^\circ - 25^\circ = 105^\circ$$

$\triangle ABD$: теорема синусов

$$BA / \sin \angle BDA = AD / \sin \angle B \Rightarrow$$

$$AD = 8 * \sin 50^\circ / \sin 105^\circ \Rightarrow AD \approx 6.34 \text{ cm}$$