

1.

$$\begin{aligned} BDC\measuredangle &= 180^\circ - \frac{ABC\measuredangle + ACB\measuredangle}{2} = \\ &= 180^\circ - \frac{180^\circ - BAC\measuredangle}{2} = 90^\circ + \frac{1}{2}BAC\measuredangle. \end{aligned}$$

2.

$$BEC\measuredangle + (90^\circ - \frac{1}{2}ABC\measuredangle) + (90^\circ - \frac{1}{2}ACB\measuredangle) = 180^\circ,$$

miből

$$BEC\measuredangle = \frac{1}{2}(ABC\measuredangle + ACB\measuredangle).$$

(Romsauer Etta, Pozsony.)

Megoldások száma: 33.