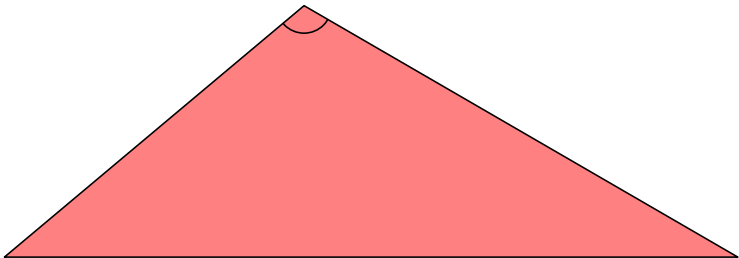
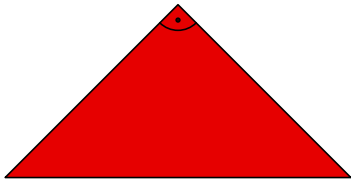
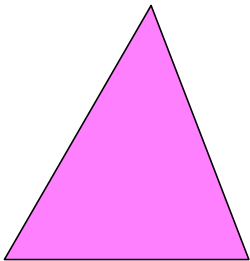


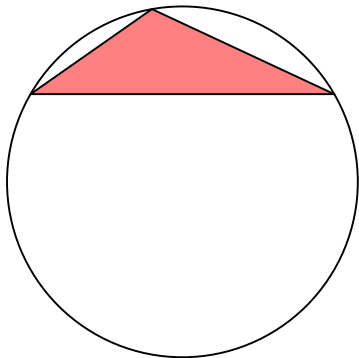
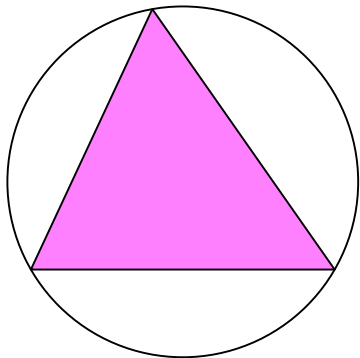
**K SLAVNOSTNÍMU ZAHÁJENÍ
ÚSTŘEDNÍHO KOLA
61. ROČNÍKU MATEMATICKÉ OLYMPIÁDY**

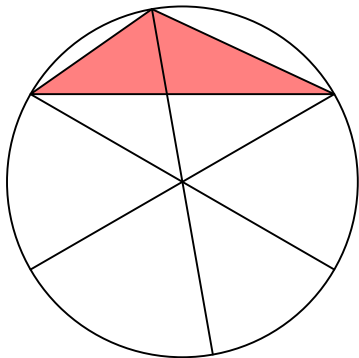
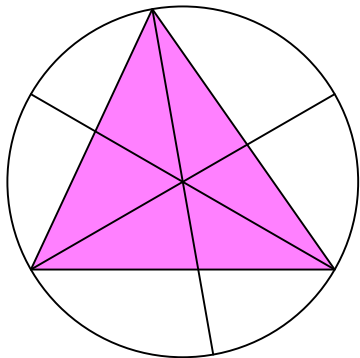
JAROMÍR ŠIMŠA

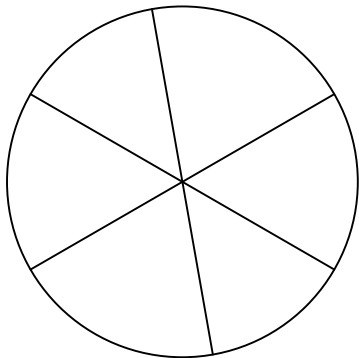
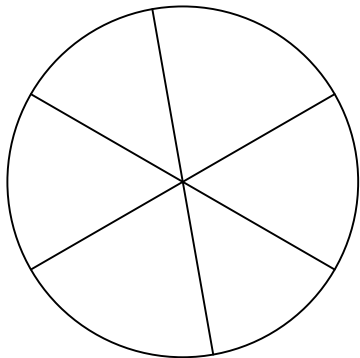


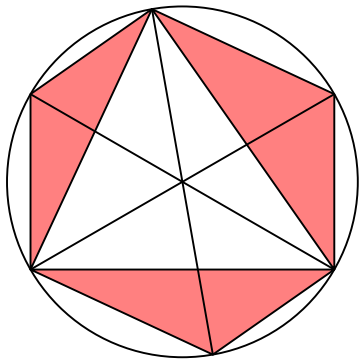
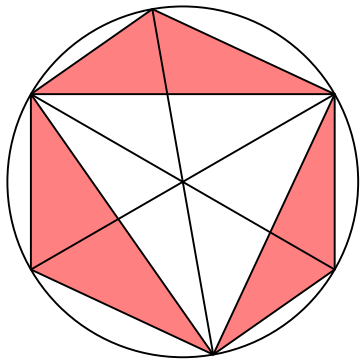
Hradec Králové, 25. března 2012

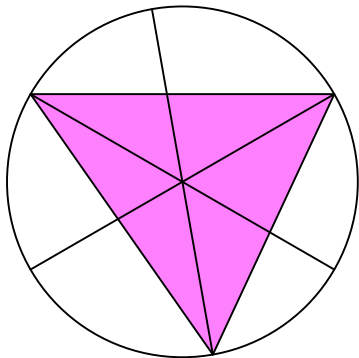
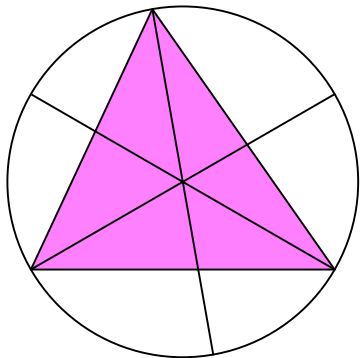


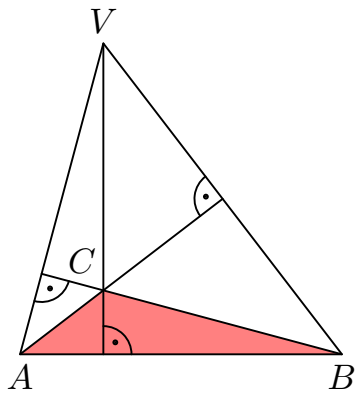
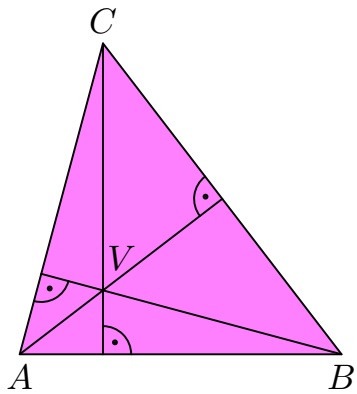


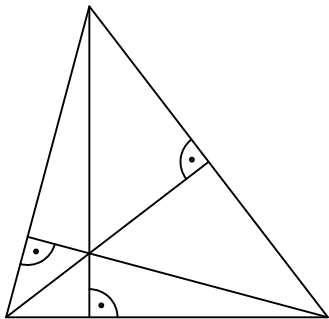
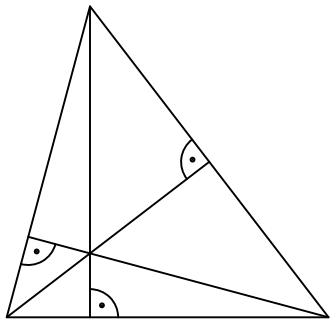


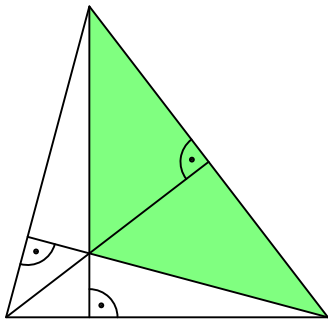
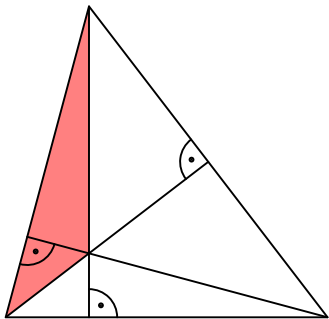












$$\alpha + \beta + \gamma = 180^\circ$$

$$\alpha + \beta + \gamma = 180^\circ, \quad \gamma = 180^\circ - (\alpha + \beta)$$

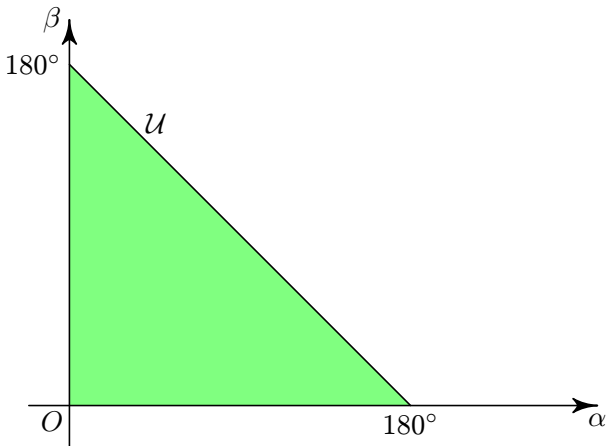
$$\alpha + \beta + \gamma = 180^\circ, \quad \gamma = 180^\circ - (\alpha + \beta), \quad \alpha + \beta < 180^\circ$$

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$$\mathcal{U} = \{(\alpha, \beta): \alpha > 0^\circ, \beta > 0^\circ, \alpha + \beta < 180^\circ\}$$

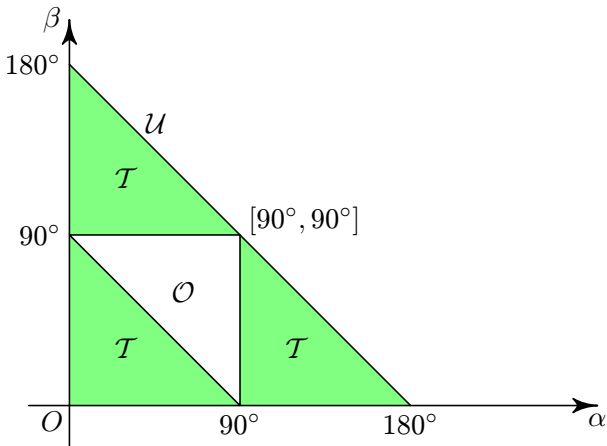
$$\alpha + \beta + \gamma = 180^\circ, \quad \gamma = 180^\circ - (\alpha + \beta), \quad \alpha + \beta < 180^\circ$$

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$$a = |BC|, b = |AC|, c = |AB|$$

$$a = |BC|, b = |AC|, c = |AB|, \quad a + b + c = 1$$

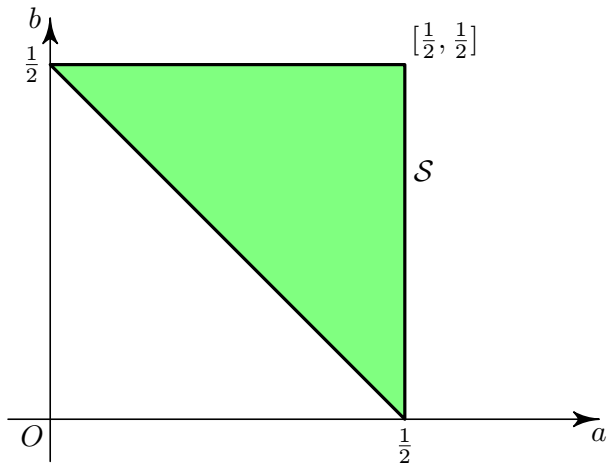
$$a = |BC|, b = |AC|, c = |AB|, \quad a + b + c = 1, \quad c = 1 - (a + b)$$

$$a = |BC|, b = |AC|, c = |AB|, \quad a + b + c = 1, \quad c = 1 - (a + b)$$

$$\mathcal{S} = \left\{ (a, b) : 0 < a < \frac{1}{2}, 0 < b < \frac{1}{2}, a + b > \frac{1}{2} \right\}$$

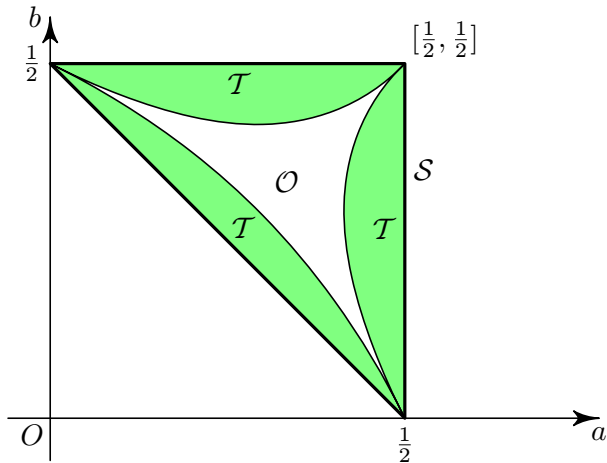
$$a = |BC|, b = |AC|, c = |AB|, \quad a + b + c = 1, \quad c = 1 - (a + b)$$

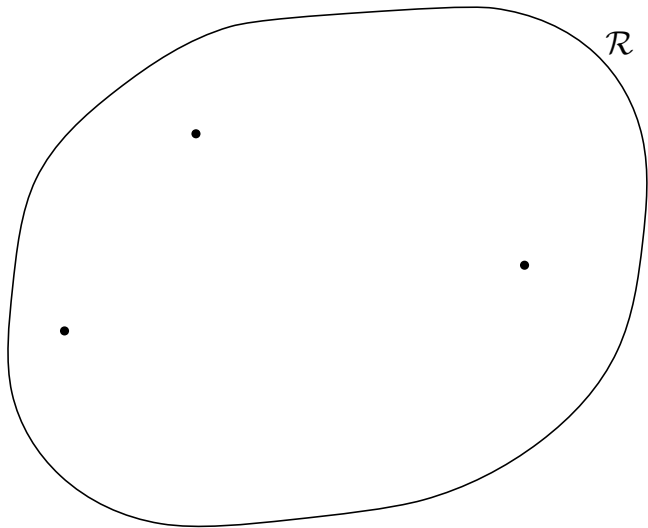
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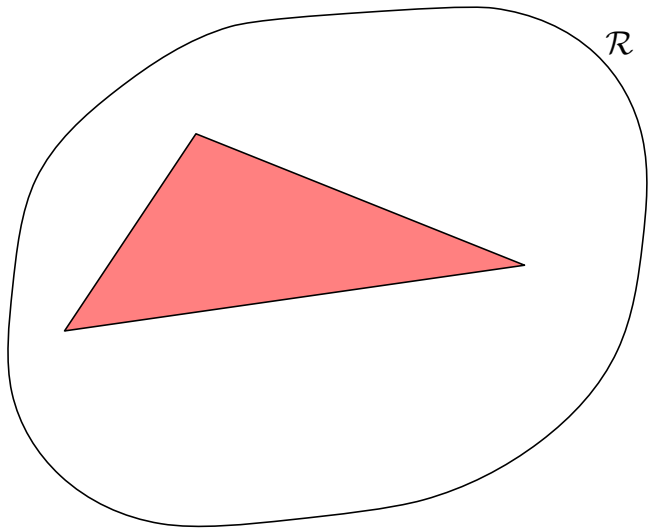


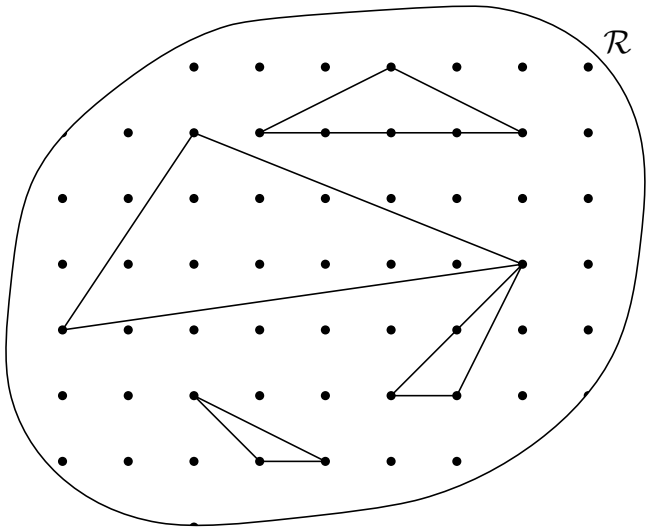
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Útvar \mathcal{R}	Pravděp. tupoúhl. troj.
Kruh	0,7201
Pravid. šestiúhelník	0,7204
Čtverec	0,7257
Rovnostr. trojúhelník	0,7482
Obdélník 1×2	0,7987
Obdélník 1×3	0,8668
Obdélník 1×4	0,9077
Obdélník 1×5	0,9329
Obdélník 1×15	0,9877
Obdélník 1×20	0,9923

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Koule v prostoru	0,5281

<http://www.hpptt.cz>