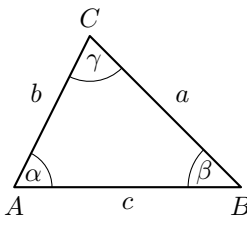
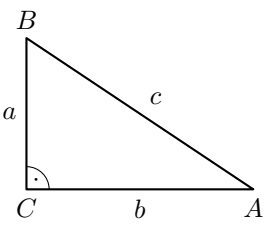
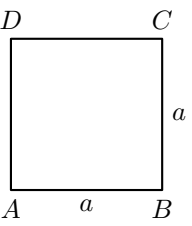
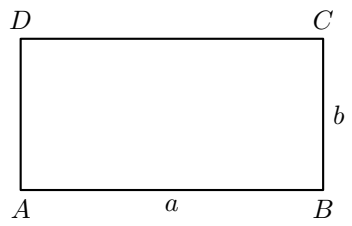
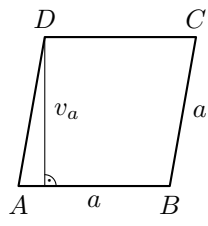
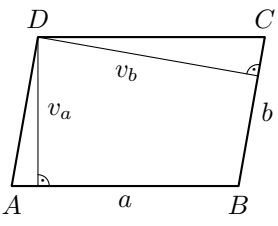
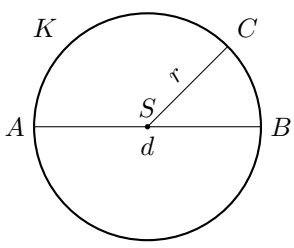
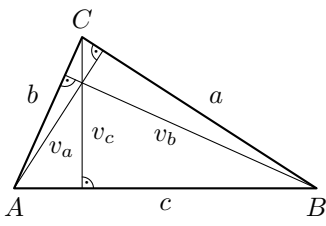
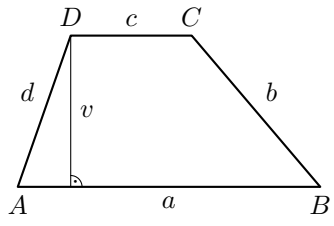


# TEST Z MATEMATIKY

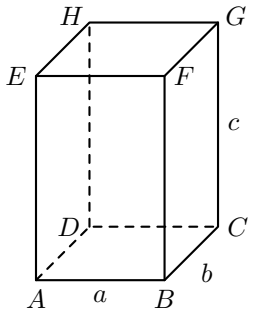
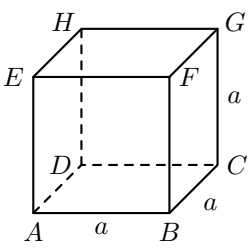
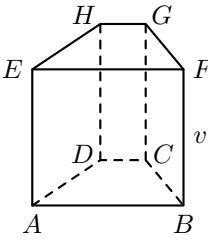
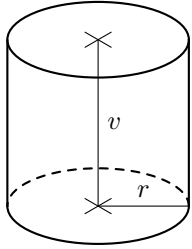
## Jednotky a základné geometrické fakty

<p><b>Meracie jednotky</b></p> <p><b>Jednotky dĺžky:</b> km, m, dm, cm, mm</p> <p><b>Jednotky obsahu:</b> km<sup>2</sup>, ha, a, m<sup>2</sup>, dm<sup>2</sup>, cm<sup>2</sup>, mm<sup>2</sup></p> <p><b>Jednotky času:</b> deň, h, min, s</p> <p><b>Jednotky hmotnosti:</b> t, kg, dag, g, mg</p>	<p><b>Uhly v trojuholníku</b></p>  <p><math>\alpha + \beta + \gamma = 180^\circ</math></p>	<p><b>Pytagorova veta</b></p>  <p><math>a^2 + b^2 = c^2</math></p>
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## Obvody a obsahy rovinných útvarov

<p><b>Štvorec</b></p>  <p><math>o = 4 \cdot a</math> <math>S = a^2</math></p>	<p><b>Obdĺžnik</b></p>  <p><math>o = 2 \cdot (a + b)</math> <math>S = a \cdot b</math></p>	<p><b>Kosoštvorec</b></p>  <p><math>o = 4 \cdot a</math> <math>S = a \cdot v_a</math></p>	<p><b>Kosodĺžnik</b></p>  <p><math>o = 2 \cdot (a + b)</math> <math>S = a \cdot v_a = b \cdot v_b</math></p>
<p><b>Kruh</b></p>  <p><math>o = 2 \cdot \pi \cdot r = \pi \cdot d</math> <math>S = \pi \cdot r^2</math></p>	<p><b>Trojuholník</b></p>  <p><math>o = a + b + c</math> <math>S = \frac{a \cdot v_a}{2} = \frac{b \cdot v_b}{2} = \frac{c \cdot v_c}{2}</math></p>	<p><b>Lichobežník</b></p>  <p><math>o = a + b + c + d</math> <math>S = \frac{(a + c) \cdot v}{2}</math></p>	

## Objemy a povrchy telies

<p><b>Kváder</b></p>  <p><math>V = a \cdot b \cdot c</math> <math>S = 2 \cdot (a \cdot b + b \cdot c + a \cdot c)</math></p>	<p><b>Kocka</b></p>  <p><math>V = a^3</math> <math>S = 6 \cdot a^2</math></p>	<p><b>Hranol</b></p>  <p><math>V = S_{\text{podstavy}} \cdot v</math> <math>S = 2 \cdot S_{\text{podstavy}} + S_{\text{plášťa}}</math></p>	<p><b>Valec</b></p>  <p><math>V = S_{\text{podstavy}} \cdot v = \pi \cdot r^2 \cdot v</math> <math>S = 2 \cdot S_{\text{podstavy}} + S_{\text{plášťa}}</math> <math>S = 2 \cdot \pi \cdot r^2 + 2 \cdot \pi \cdot r \cdot v</math></p>
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