



WORKBOOK

<http://agb.gymnaslo.cz>



Subject: Mathematics

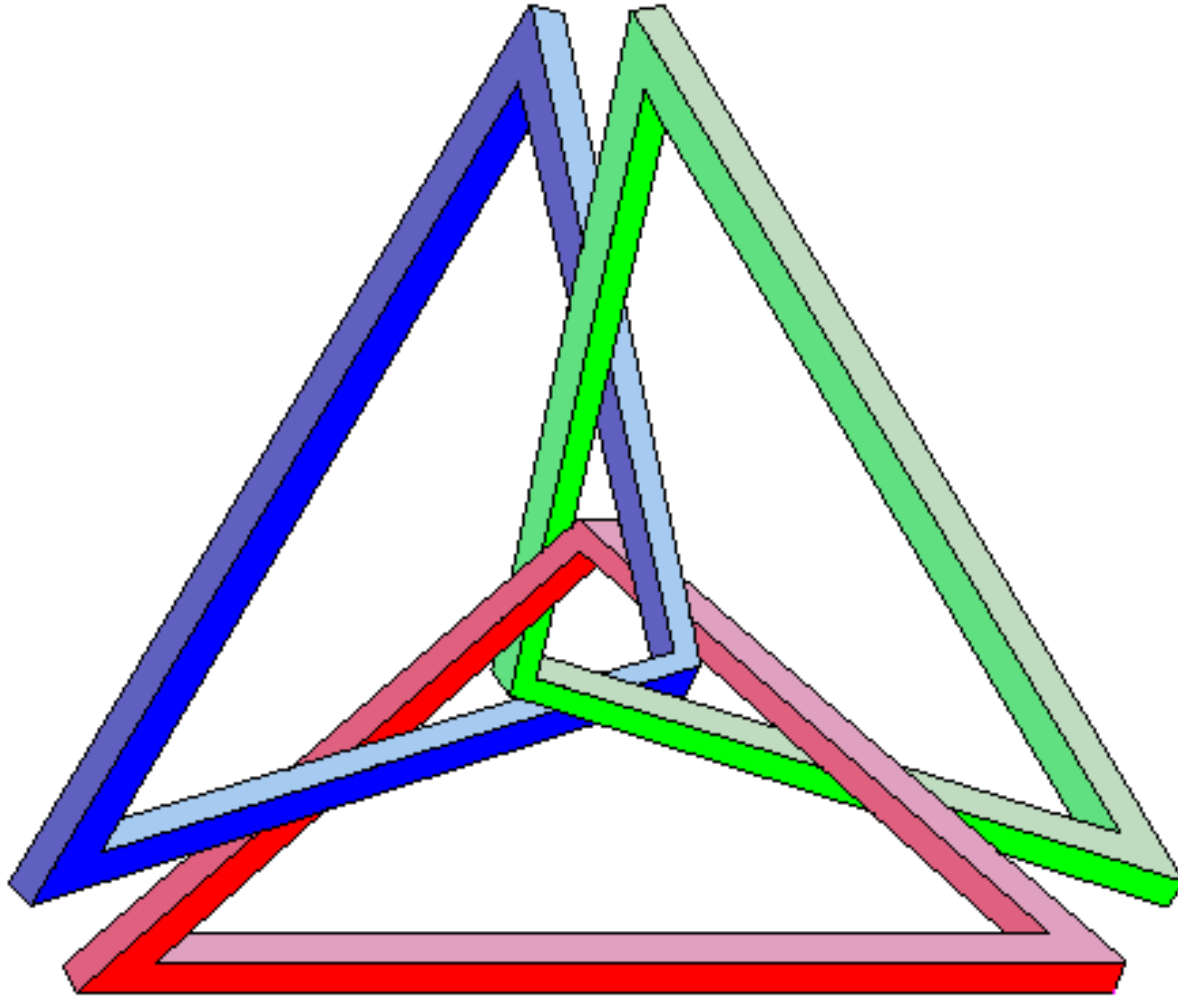
Student:

School year:/.....



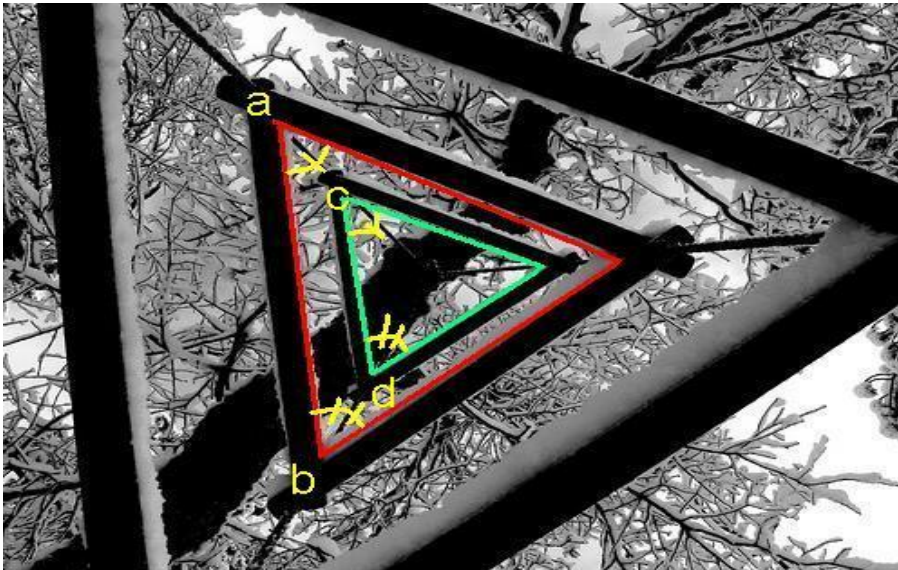
INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

THE SIMILARITY OF TRIANGLES



Two triangles are similar :

- if the ratio of the corresponding sides agree (phrases SSS)
- if they match the two corners (phrases UU)
- if they are equal to the ratio of two sides and angles by the same tight (phrases SUS)

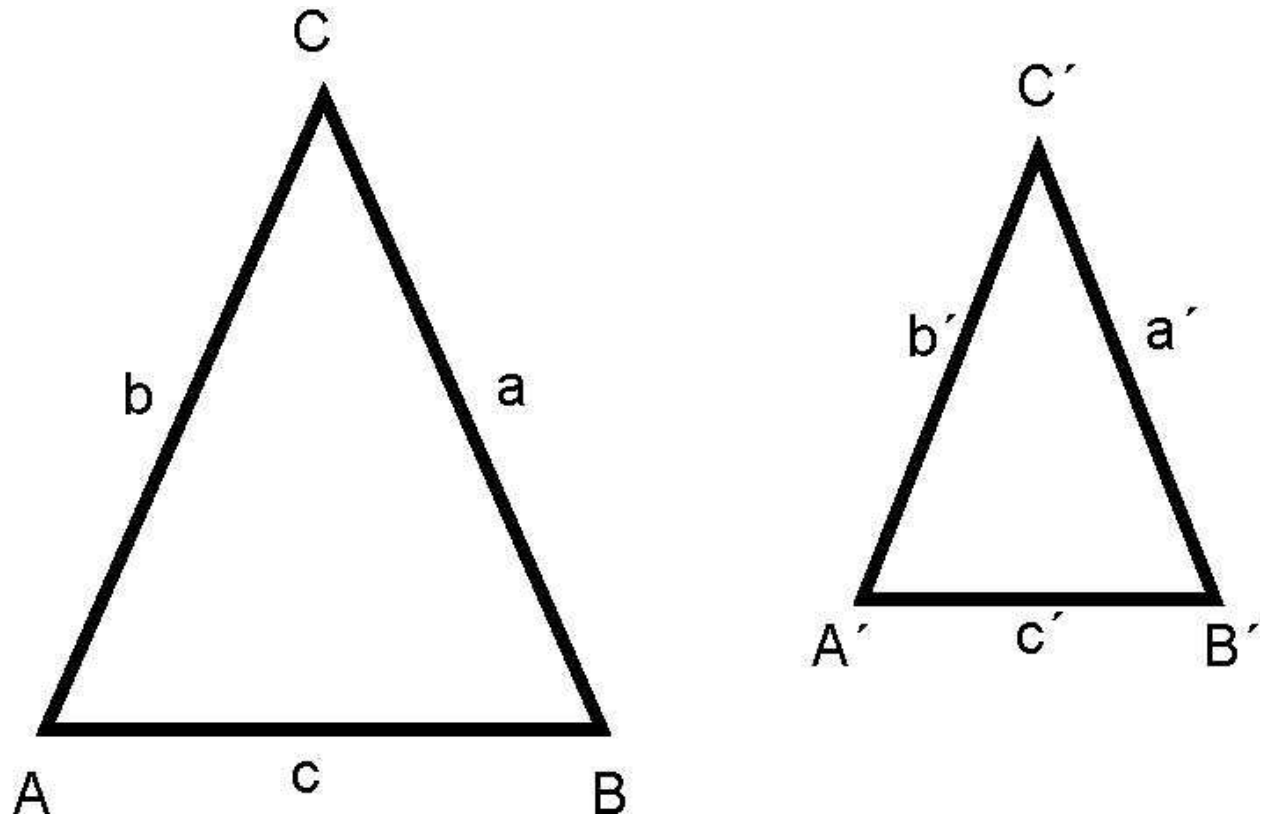


Sentences resulting from the similarity of triangles

1. Two triangles are similar if their respective parties parallel or perpendicular to each other
2. Two right triangles are similar, identical to the one bright angle or the ratio of two matching sides
3. Two isosceles triangles are similar, identical to the angle of the base or at an angle to the top
4. Every two equilateral triangles are similar

Similarity of triangles according PHRASES SSS

- If the ratios of each respective side of the triangle equal, then these triangles are similar



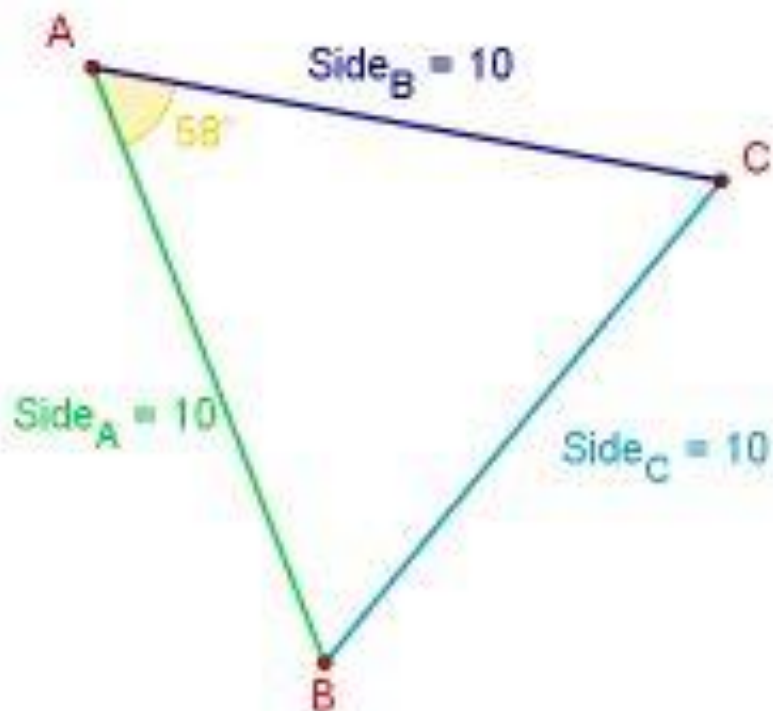
Similarity of triangles according PHRASES SUS

- If the ratio of two successive corresponding sides of triangles and their angles constricted identical, then these triangles are similar

Angle BAC = 58°

Side_C = 10

Side_B = 10



Length_A = 10



Length_B = 10



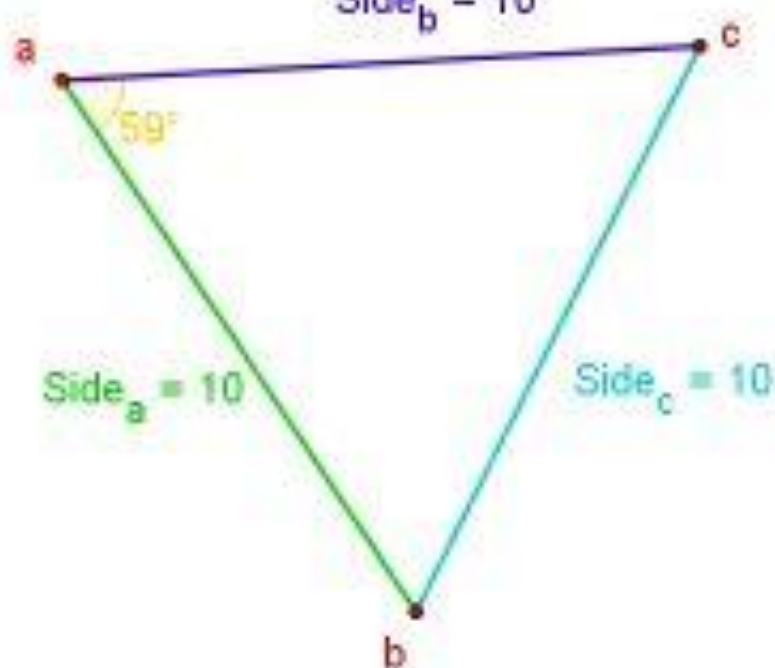
The ratio of Side_A/Side_a = $\frac{10}{10}$

The ratio of Side_B/Side_b = $\frac{10}{10}$

Angle bac = 59°

Side_c = 10

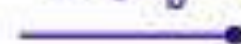
Side_b = 10



Length_a = 10



Length_b = 10



Similarity of triangle according PHRASES SSU

If true, that $a / a' = c / c'$ while $\alpha = \alpha'$, then \sim
 $\Delta ABC \Delta A'B'C$

