



Wydział Matematyki i Informatyki

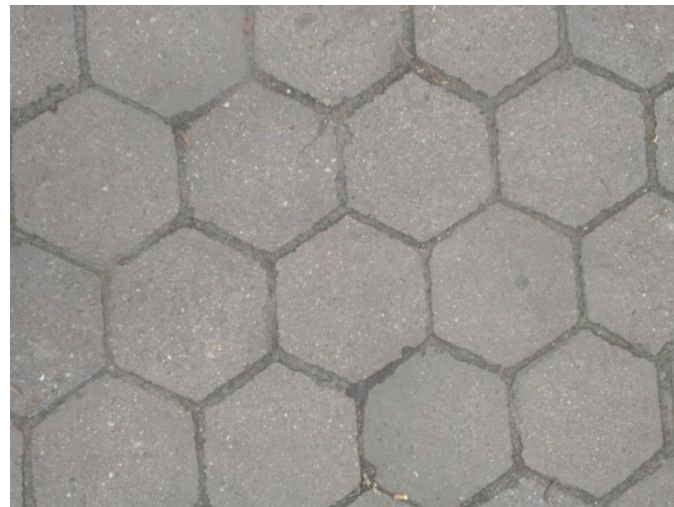
Instytut Matematyczny

specjalność: nauczycielska

PARKIETAŻE

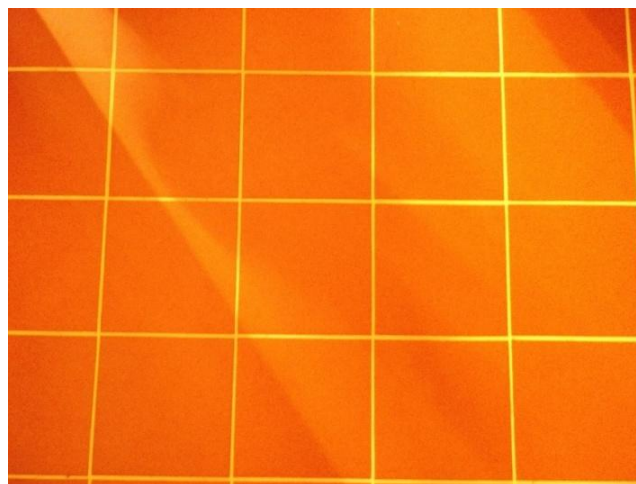
Patrycja Kumaszką

Parkietaze wokół nas

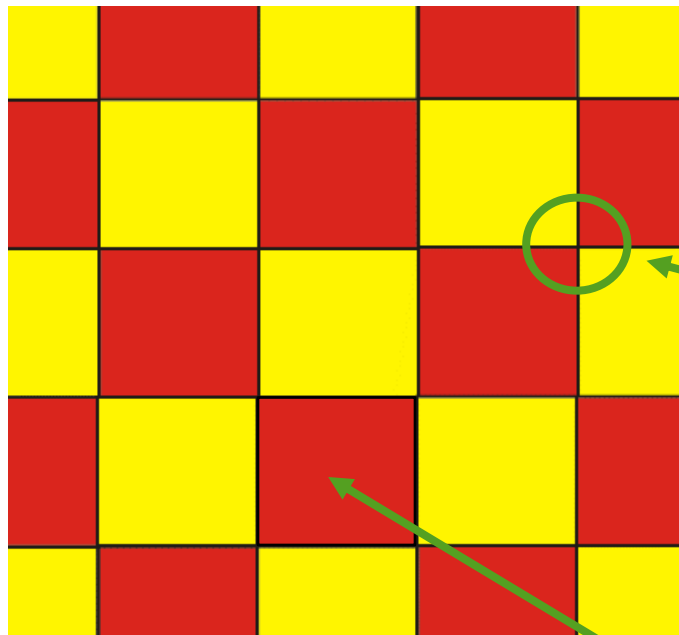


Parkietaż

to pokrycie płaszczyzny płytkami ściśle przylegającymi do siebie nawzajem, ale nie nachodzącymi.



Parkietaż



wierzchołek parkietażu

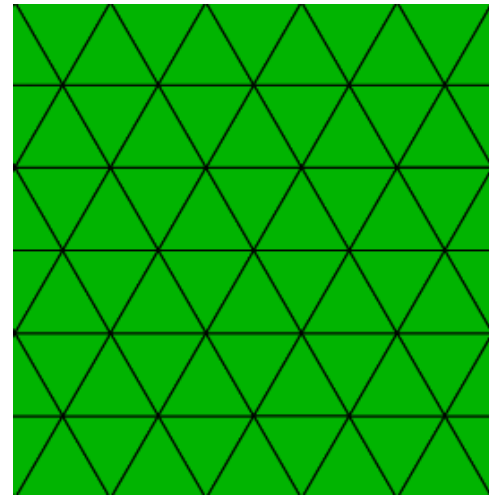
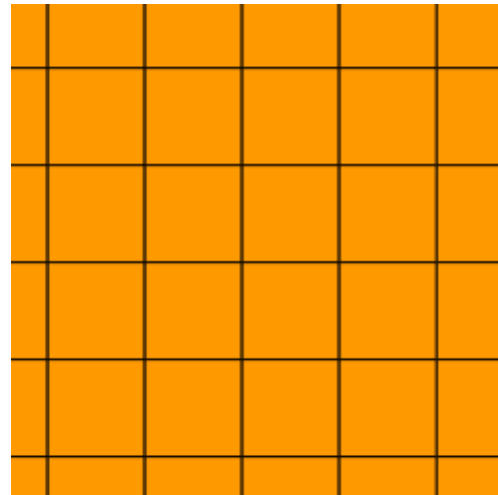
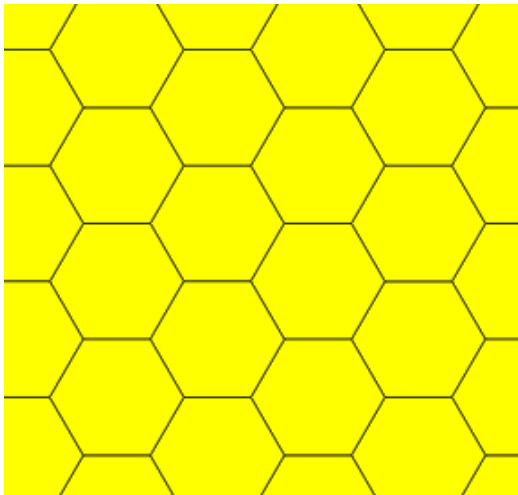


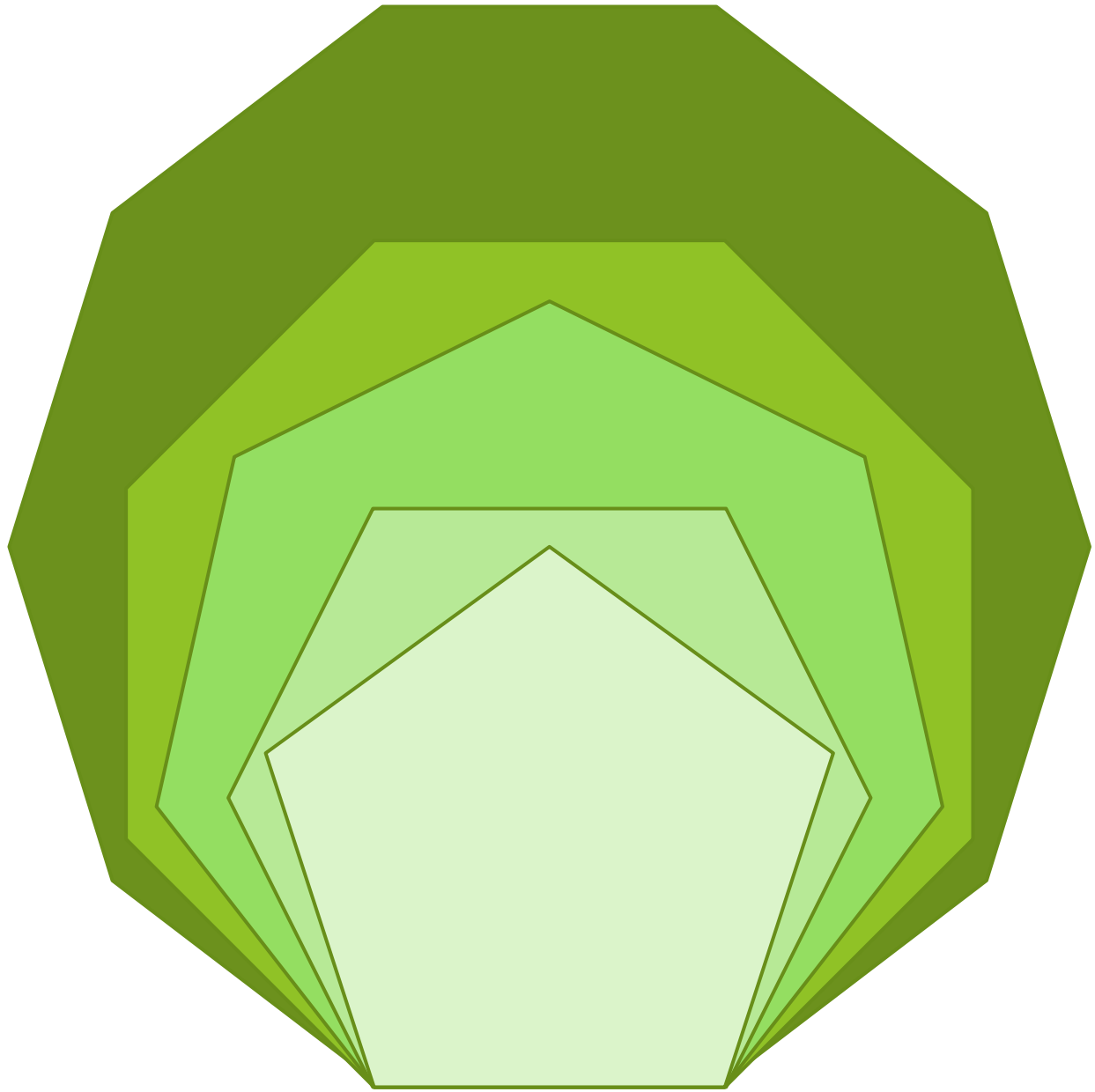
płytki parkietażu

Parkietaze foremne

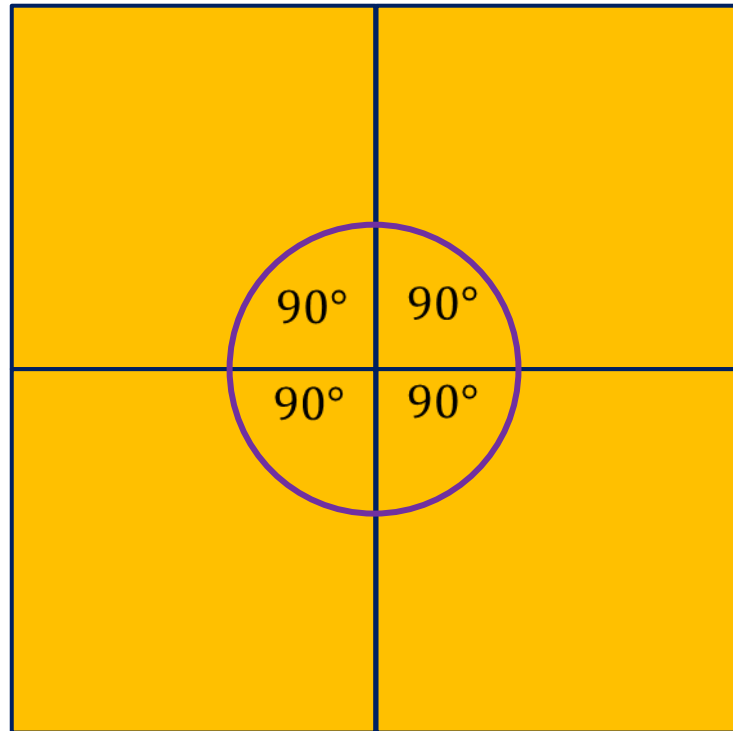
Parkietaż foremny

Składa się z identycznych wielokątów foremnych, których jednakowa liczba schodzi się w każdym wierzchołku.



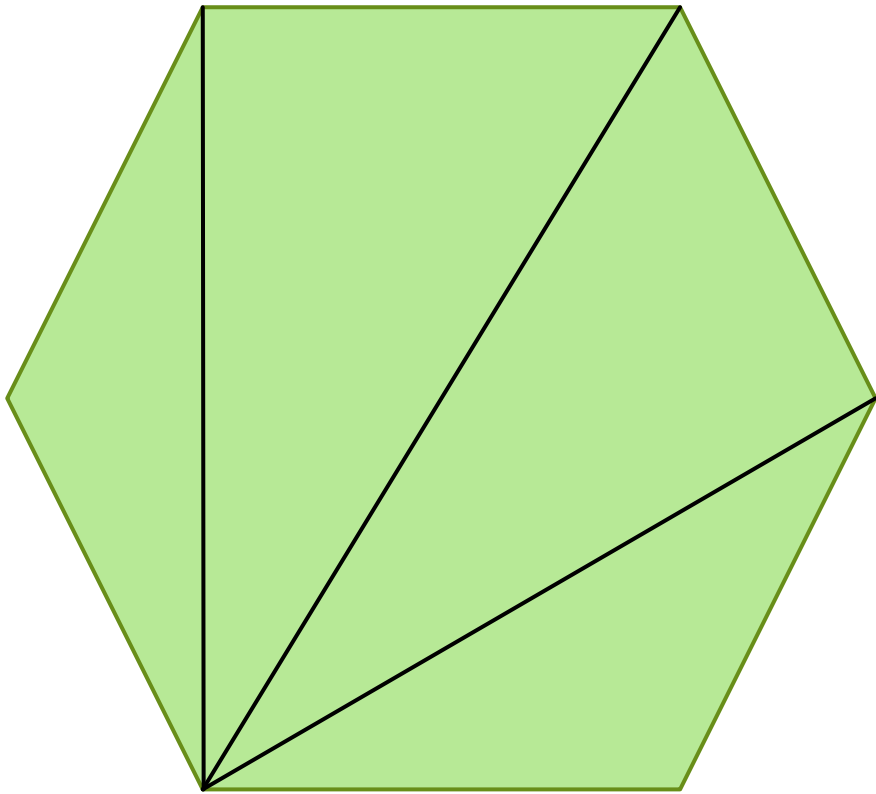


Parkietaze foremne



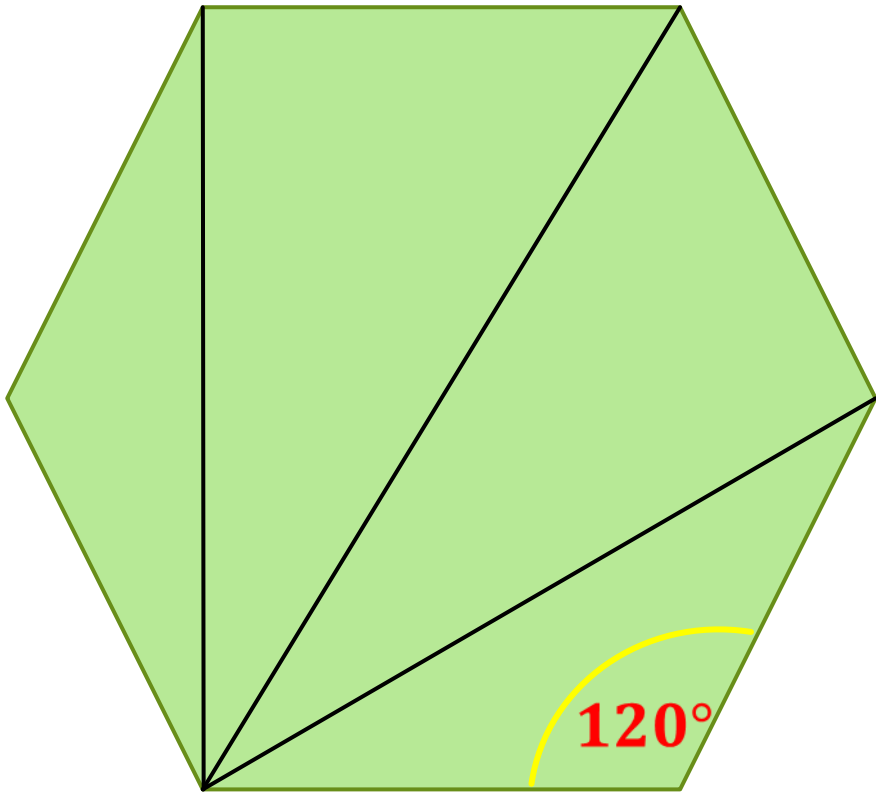
$$90^\circ + 90^\circ + 90^\circ + 90^\circ = 360^\circ$$

Miara kąta wewnętrznego w sześciokącie foremnym

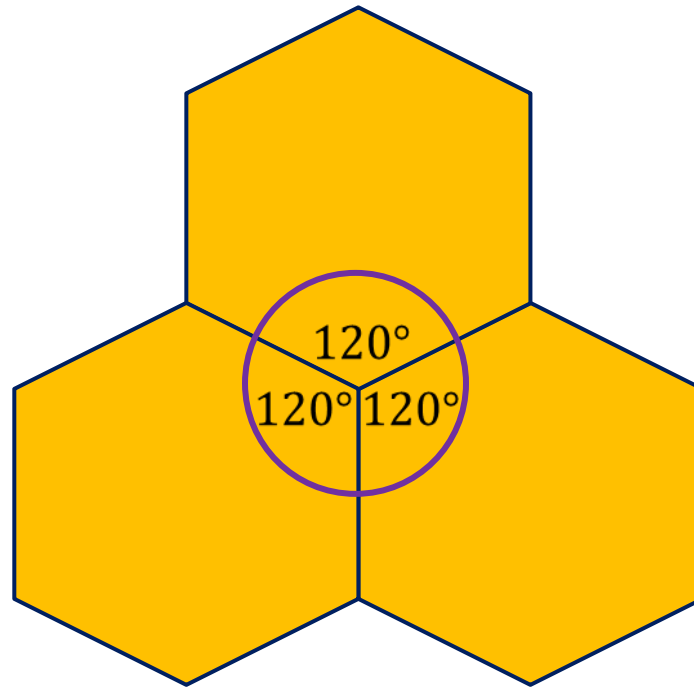


$$4 \cdot 180^\circ$$

Miara kąta wewnętrznego w sześciokącie foremnym

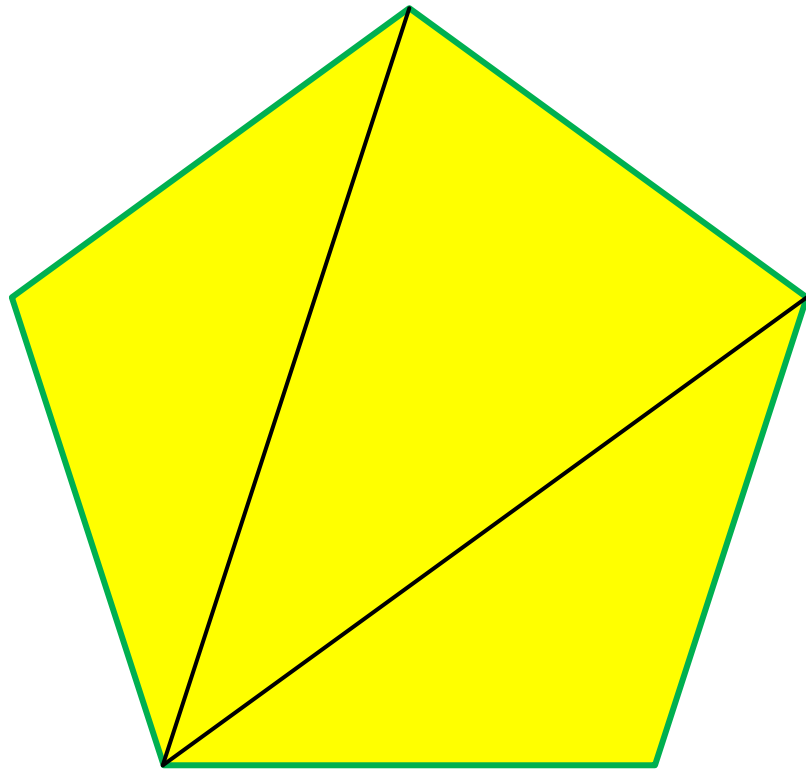


$$\frac{4 \cdot 180^\circ}{6} = 120^\circ$$



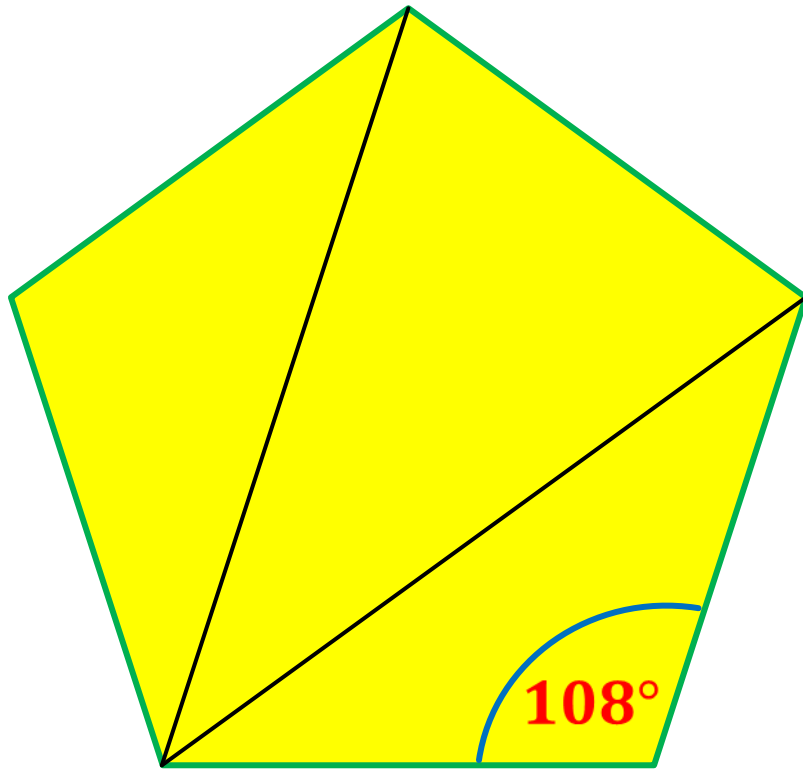
$$120^\circ + 120^\circ + 120^\circ = 360^\circ$$

Miara kąta wewnętrznego w pięciokącie foremnym



$$3 \cdot 180^\circ$$

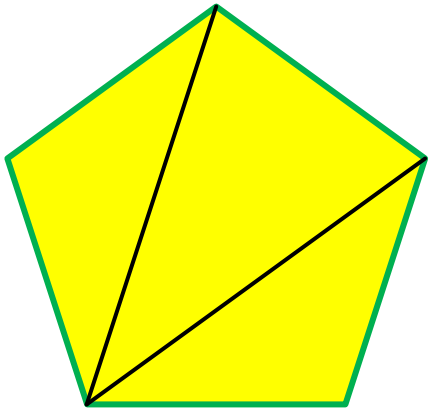
Miara kąta wewnętrznego w pięciokącie foremnym



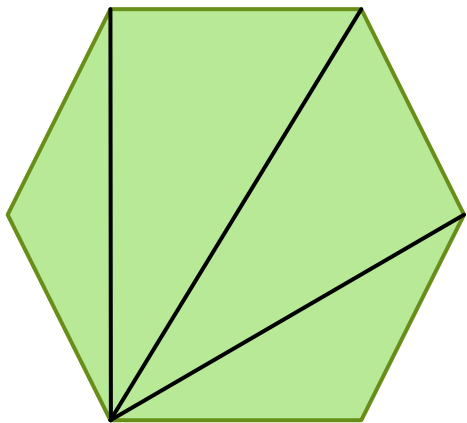
$$\frac{3 \cdot 180^\circ}{5} = 108^\circ$$

$$\frac{360^\circ}{108^\circ} = 3\frac{1}{3}$$

Miara kąta wewnętrznego w n -kącie foremnym



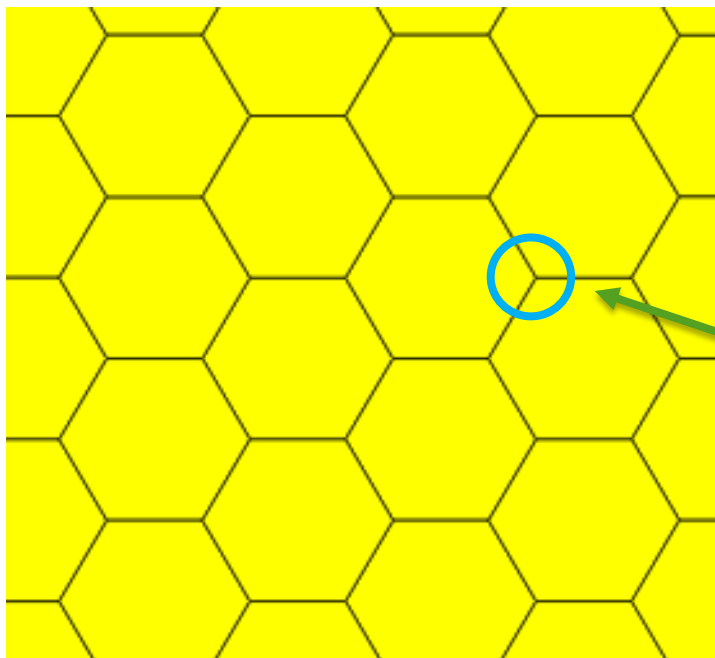
$$\frac{3 \cdot 180^\circ}{5}$$



$$\frac{4 \cdot 180^\circ}{6}$$

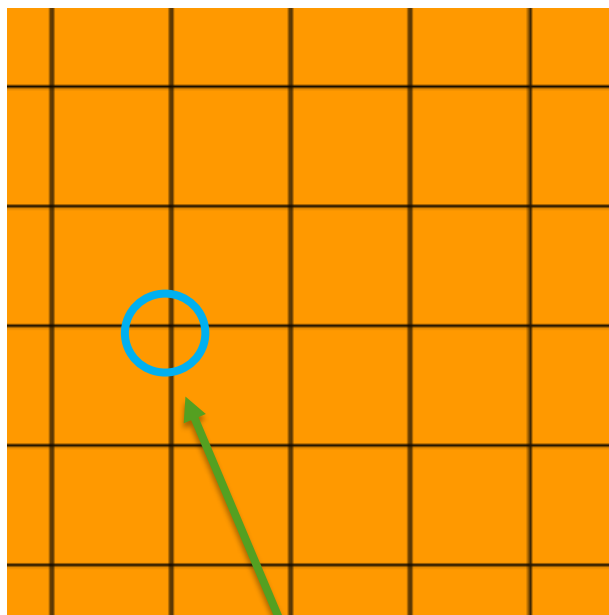
$$\frac{(n - 2) \cdot 180^\circ}{n}$$

Oznaczenia parkietaży foremnych

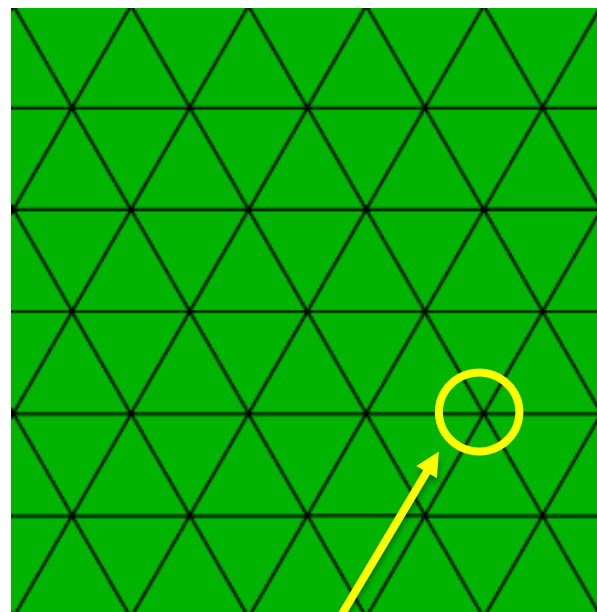


6 - 6 - 6

Oznaczenia parkietaży foremnych



4 - 4 - 4 - 4

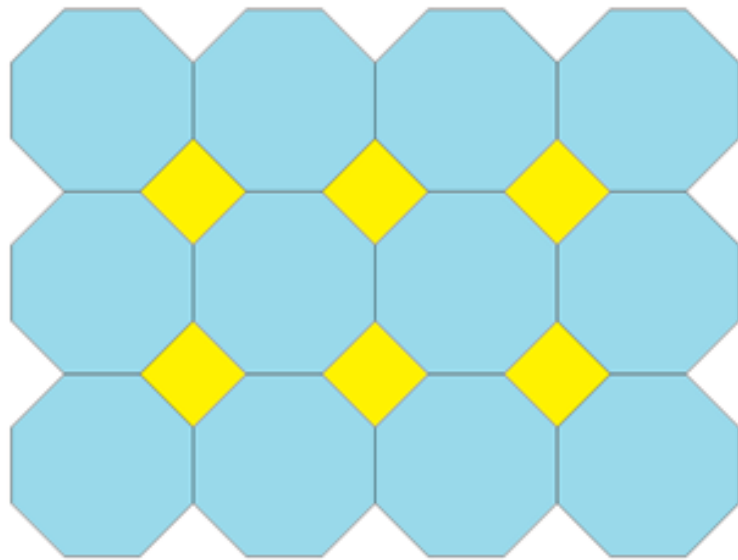


3 - 3 - 3 - 3 - 3 - 3

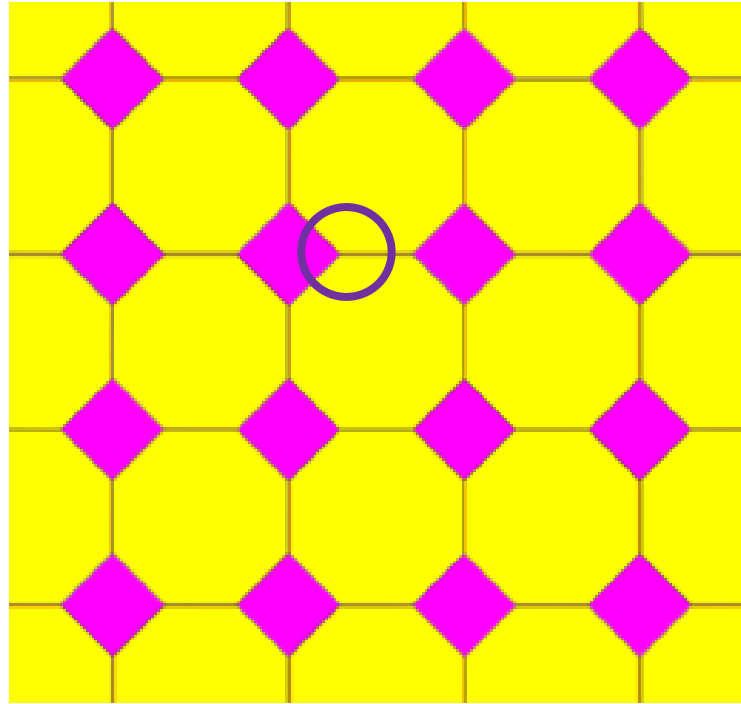
Parkietaze półforemne

Parkietaż półforemy

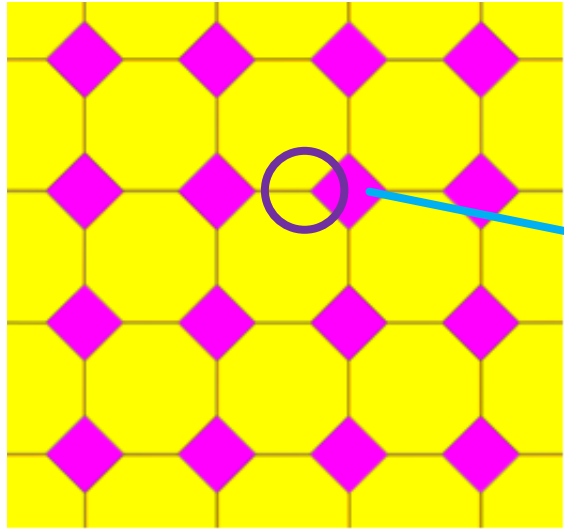
Składa się z różnych typów wielokątów foremnych.
Wierzchołki tego parkietażu są identyczne.



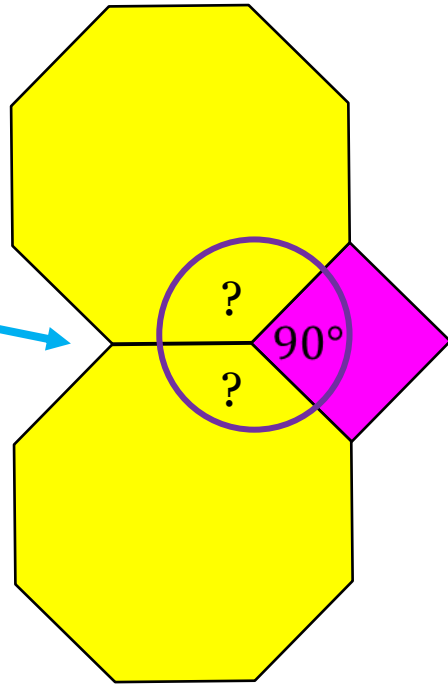
Oznaczenia parkietaży półforemnych



8 - 8 - 4



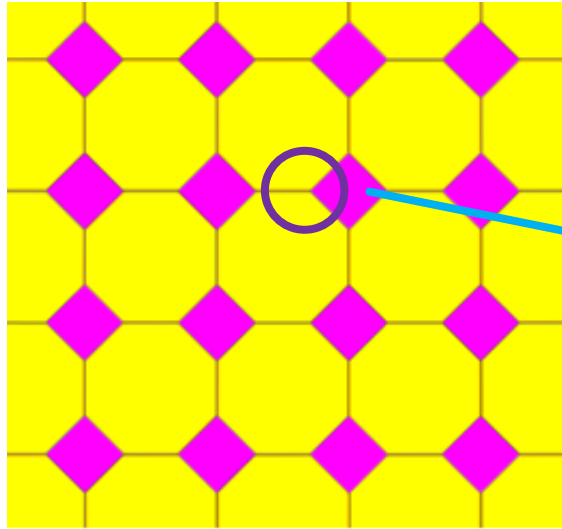
8 - 8 - 4



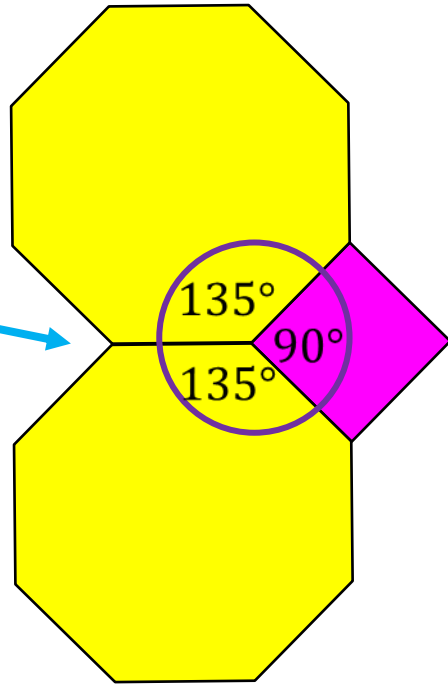
$$\frac{(n - 2) \cdot 180^\circ}{n}$$

$$n = 8$$

$$\frac{(8 - 2) \cdot 180^\circ}{8} = 135^\circ$$



8 - 8 - 4



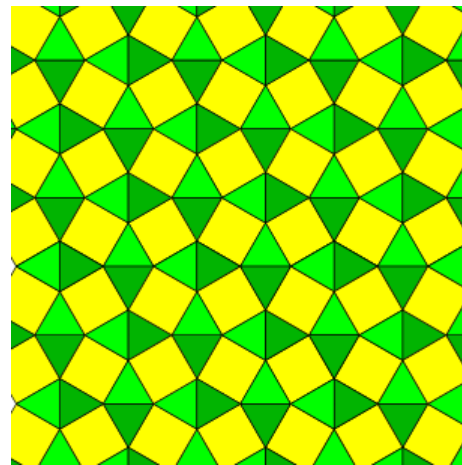
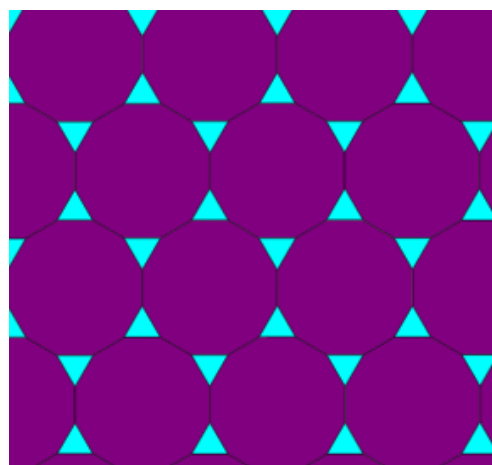
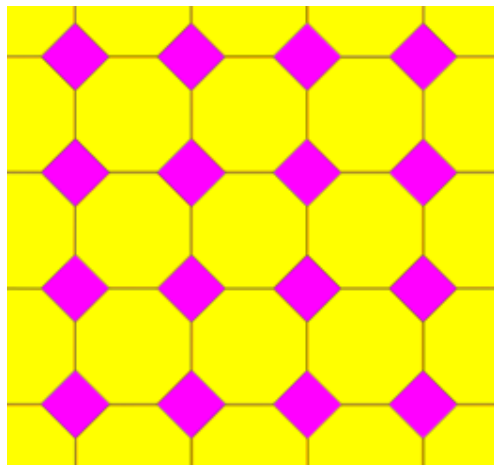
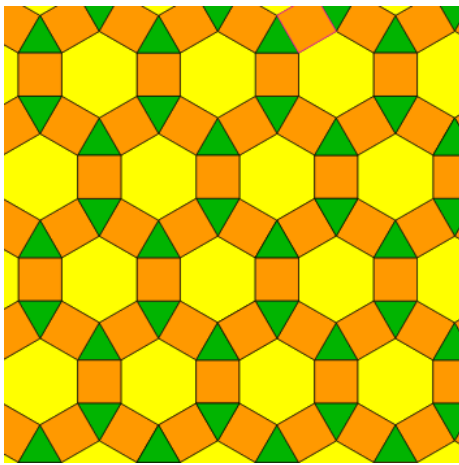
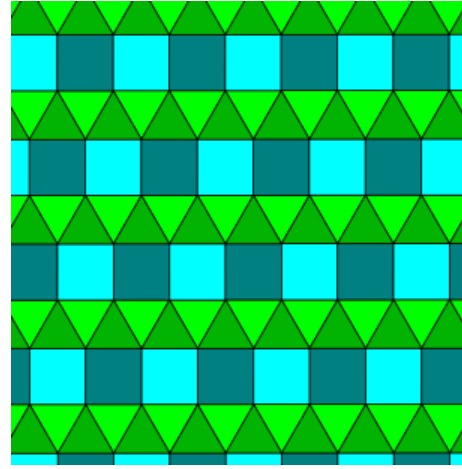
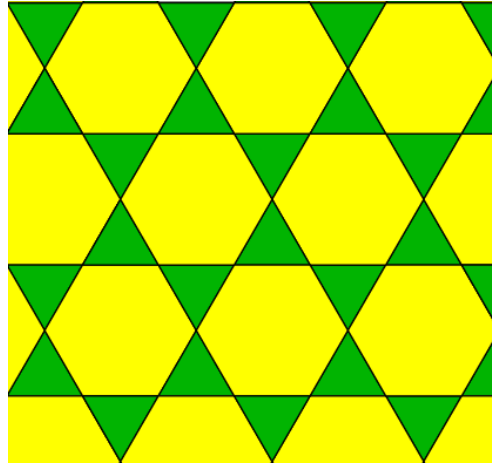
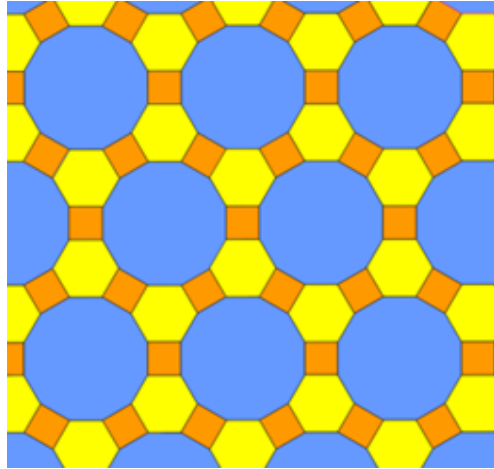
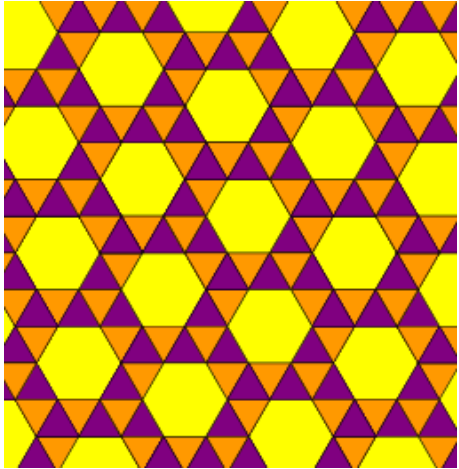
$$\frac{(n - 2) \cdot 180^\circ}{n}$$

$$n = 8$$

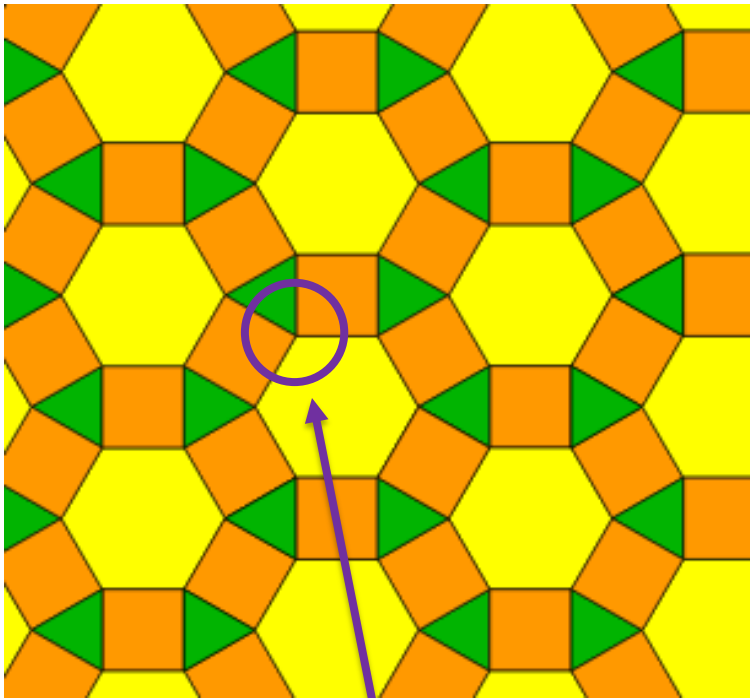
$$\frac{(8 - 2) \cdot 180^\circ}{8} = 135^\circ$$

$$135^\circ + 135^\circ + 90^\circ = 360^\circ$$

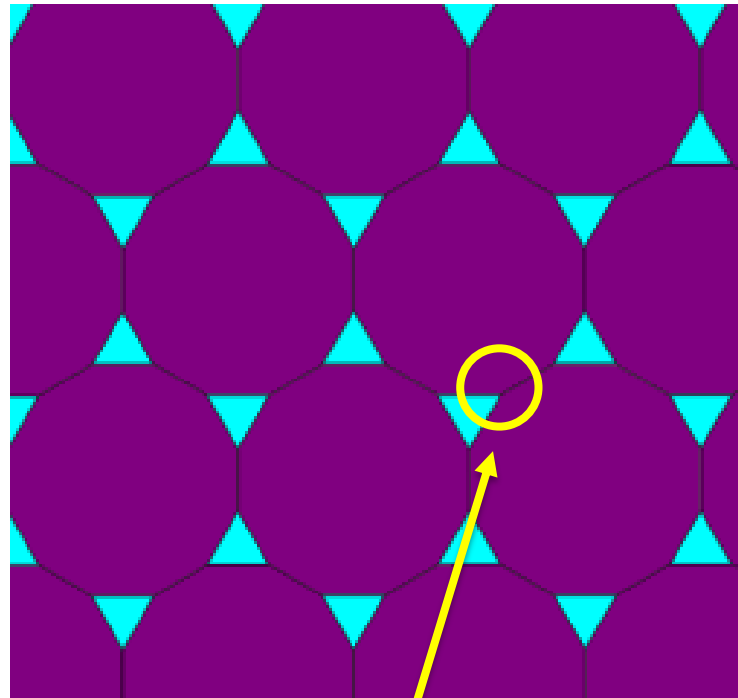
Parkietaze półforemne



Oznaczenia parkietaży półforemnych

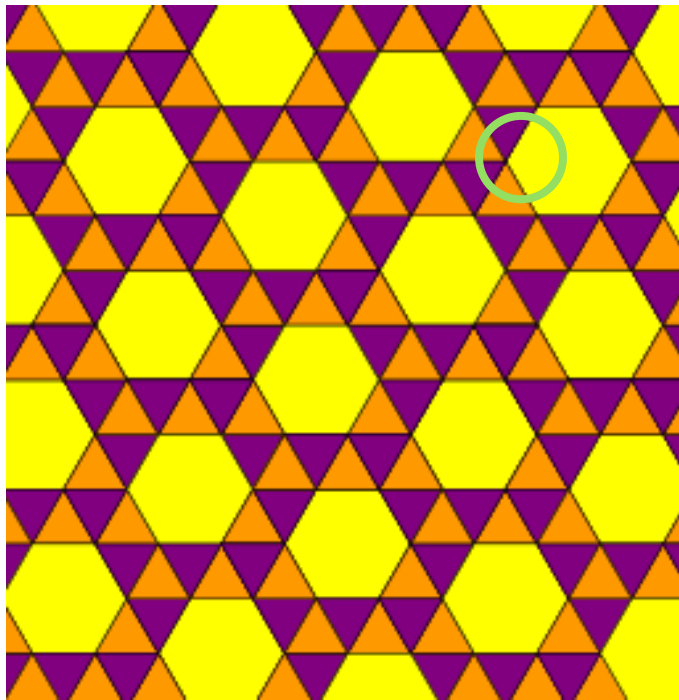


4 - 3 - 4 - 6

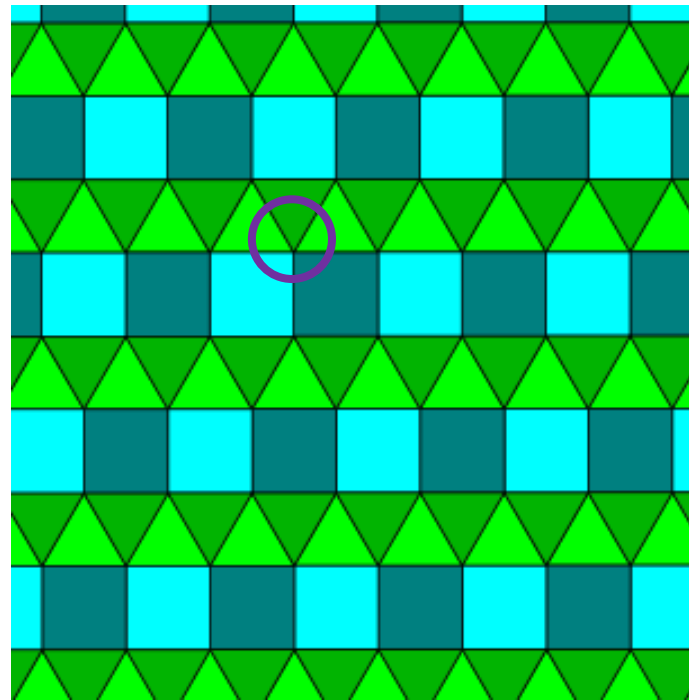


3 - 12 - 12

Oznaczenia parkietaży półforemnych

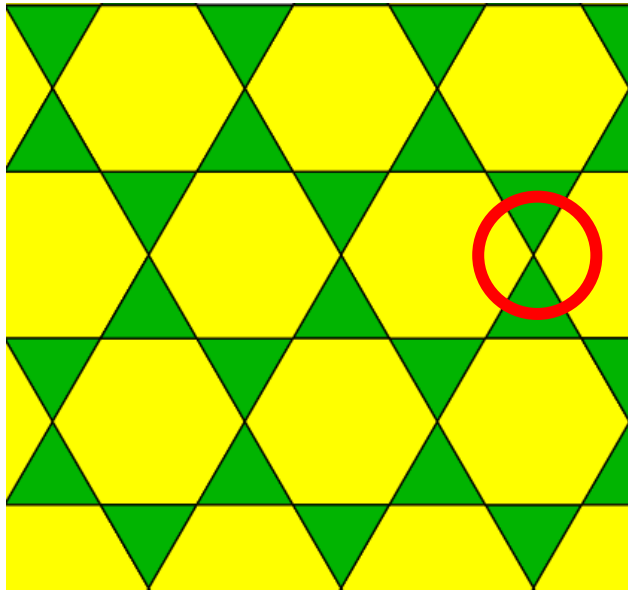


3 – 3 – 3 – 3 – 6

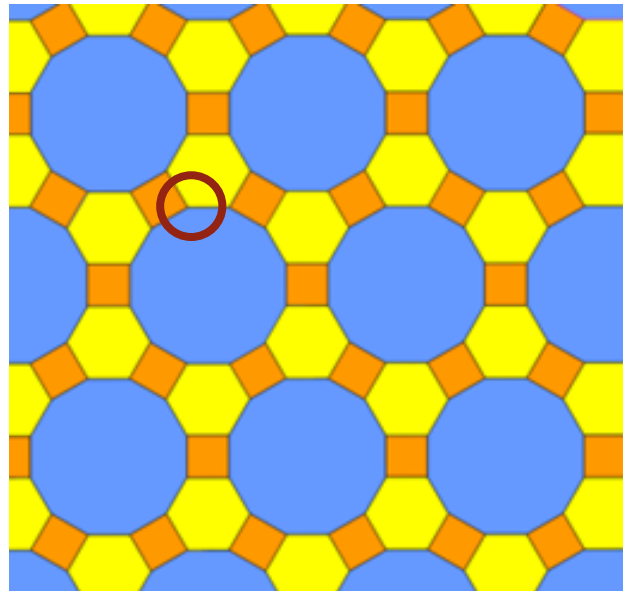


3 – 3 – 3 – 4 – 4

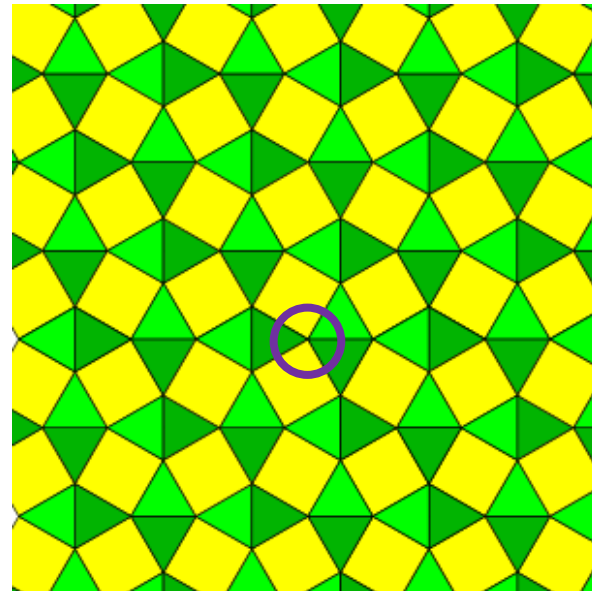
Oznaczenia parkietaży półforemnych



3 – 6 – 3 – 6

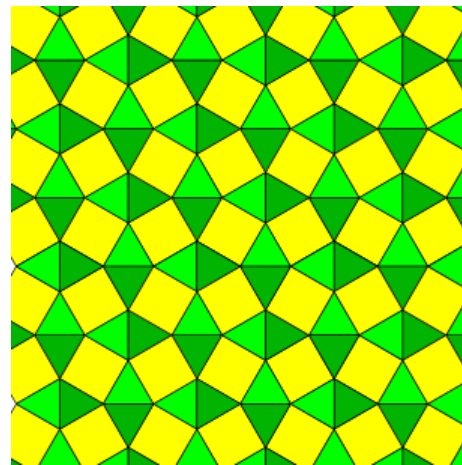
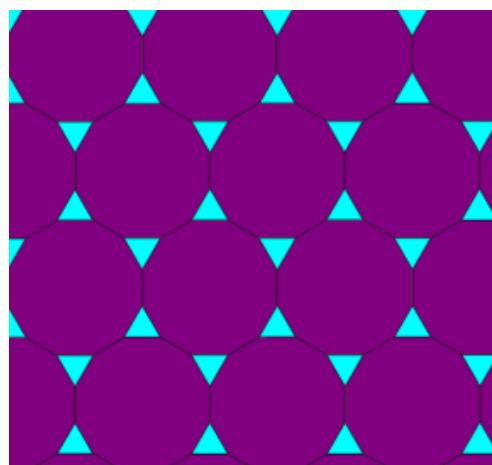
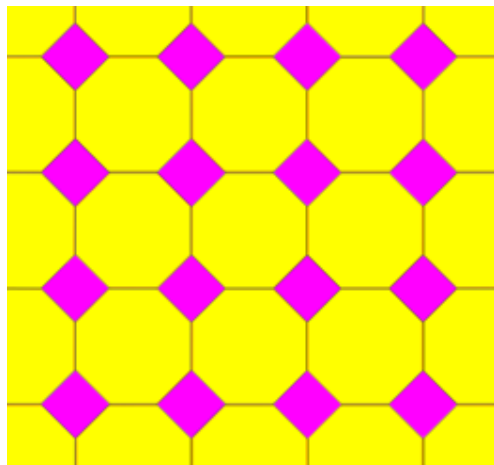
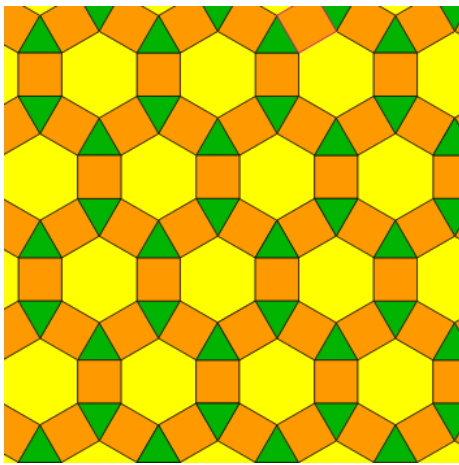
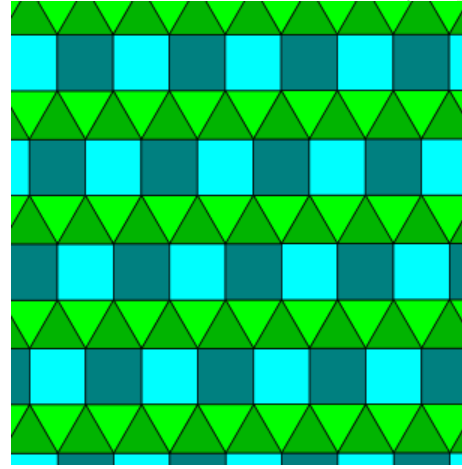
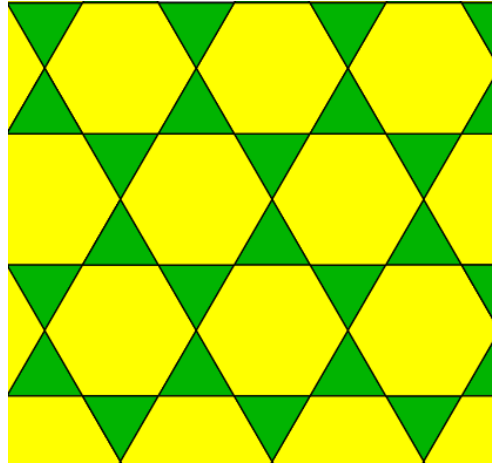
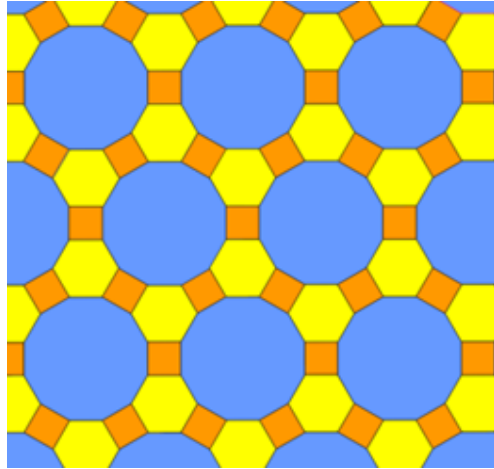
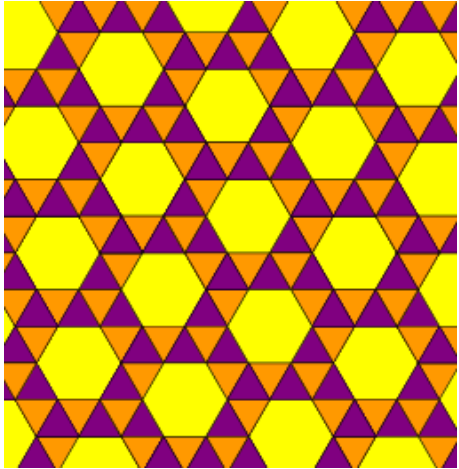


6 – 4 – 8



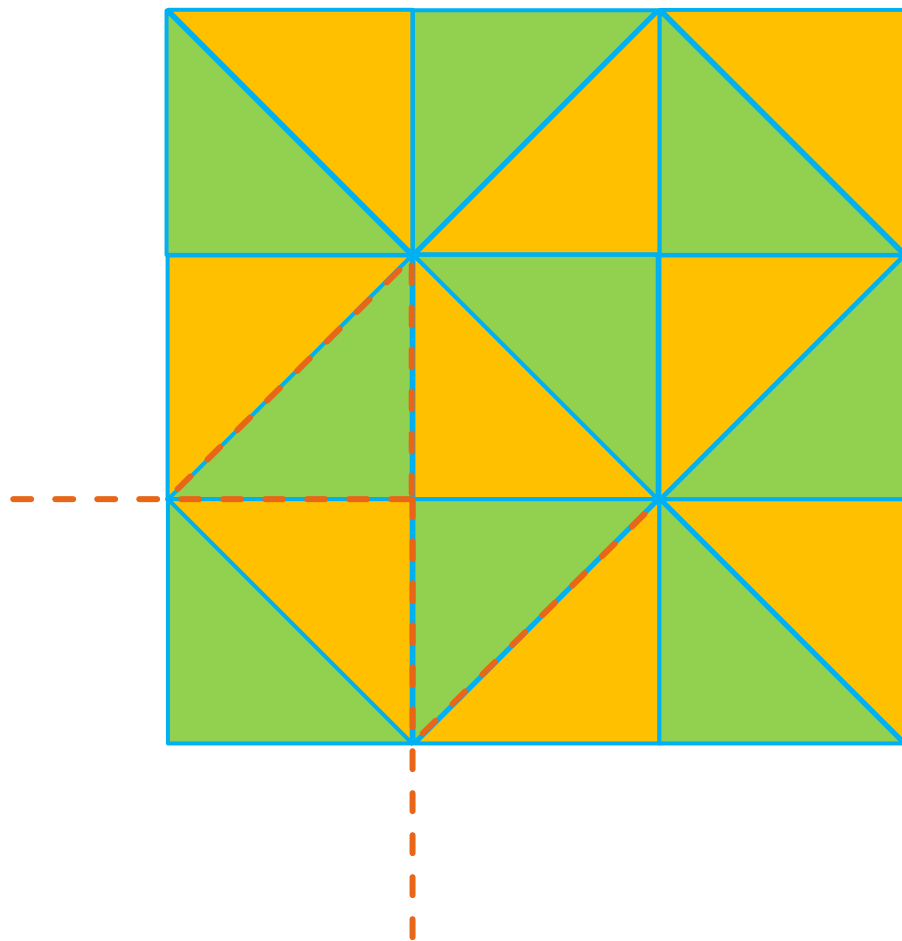
3 – 3 – 4 – 3 – 4

Parkietaze półforemne

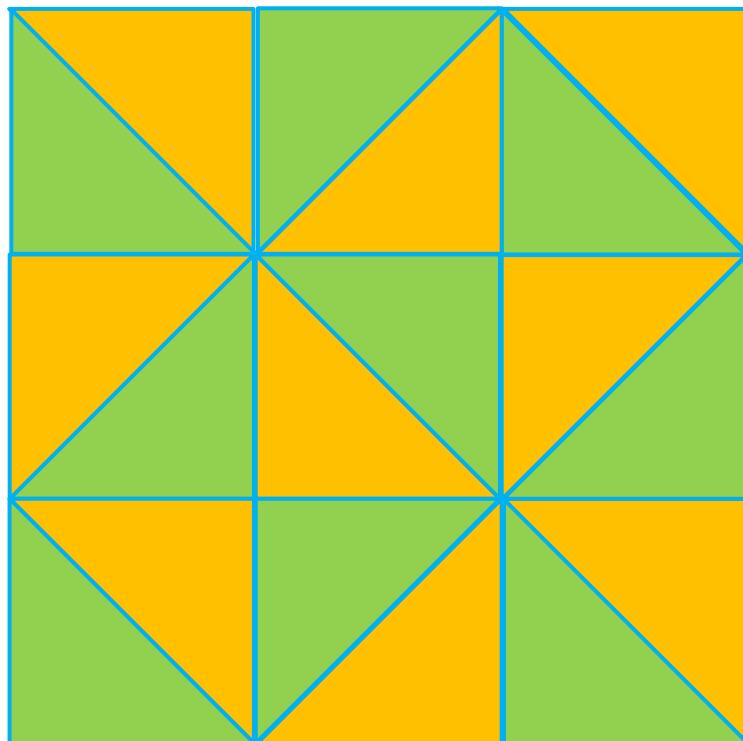


Parkietaze odbiciowe

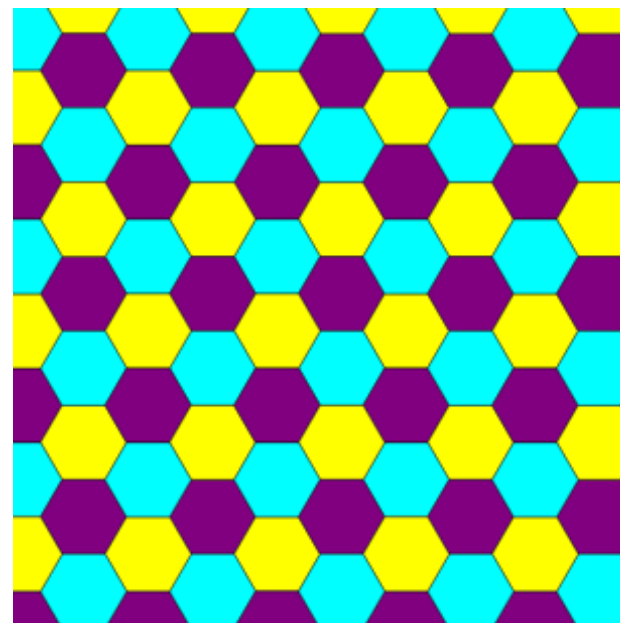
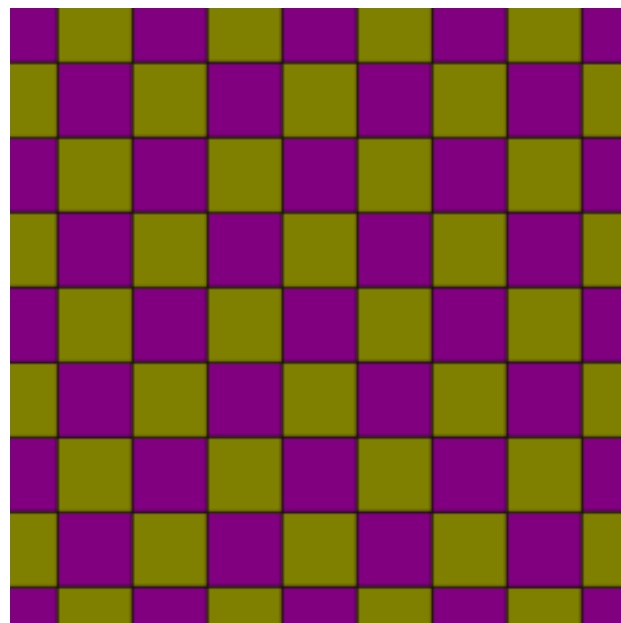
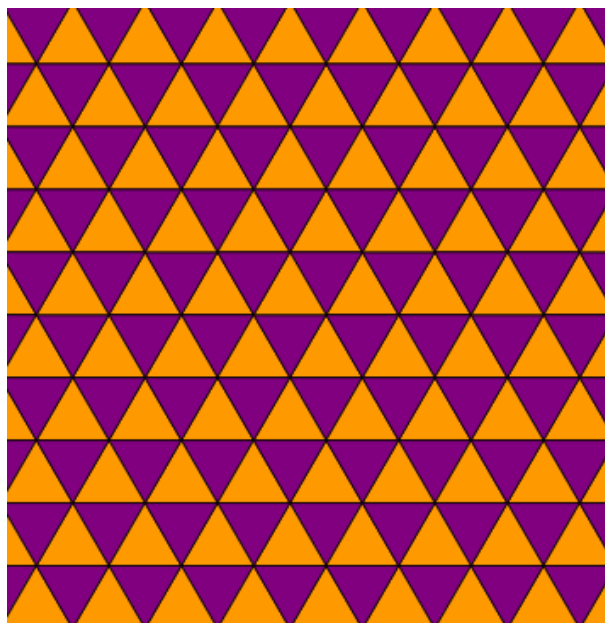
Parkietaze odbiciowe



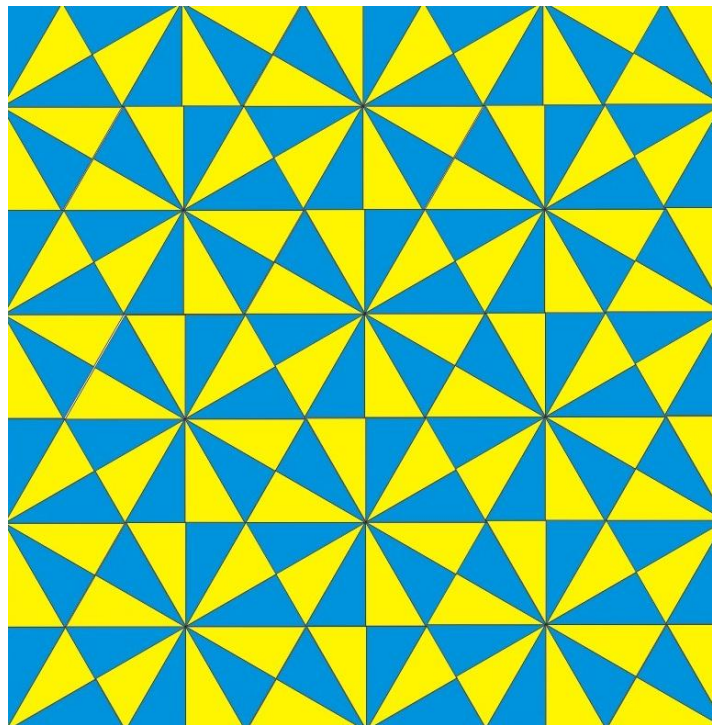
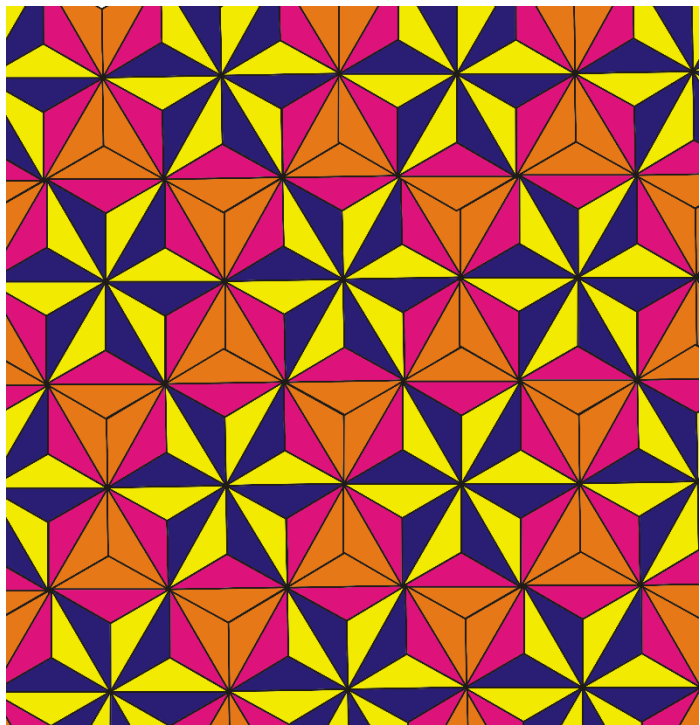
Parkietaze odbiciowe



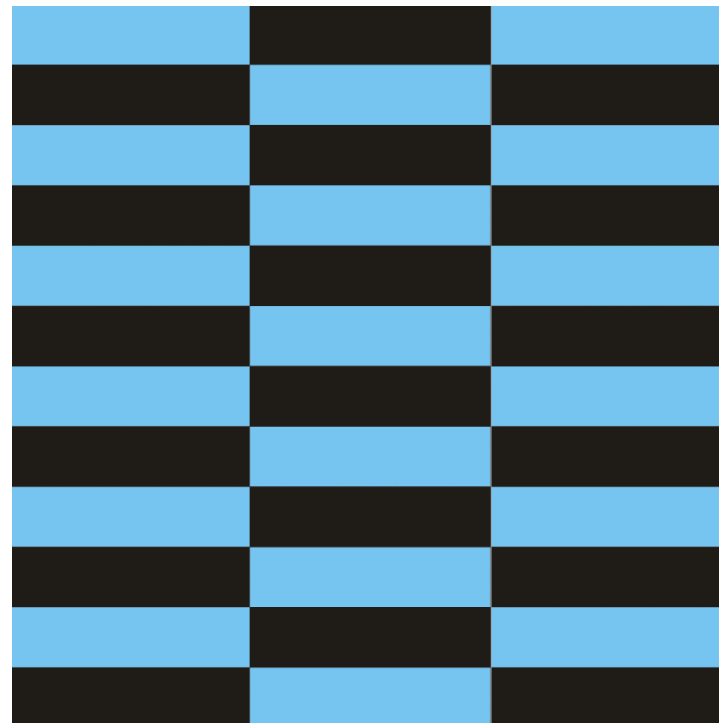
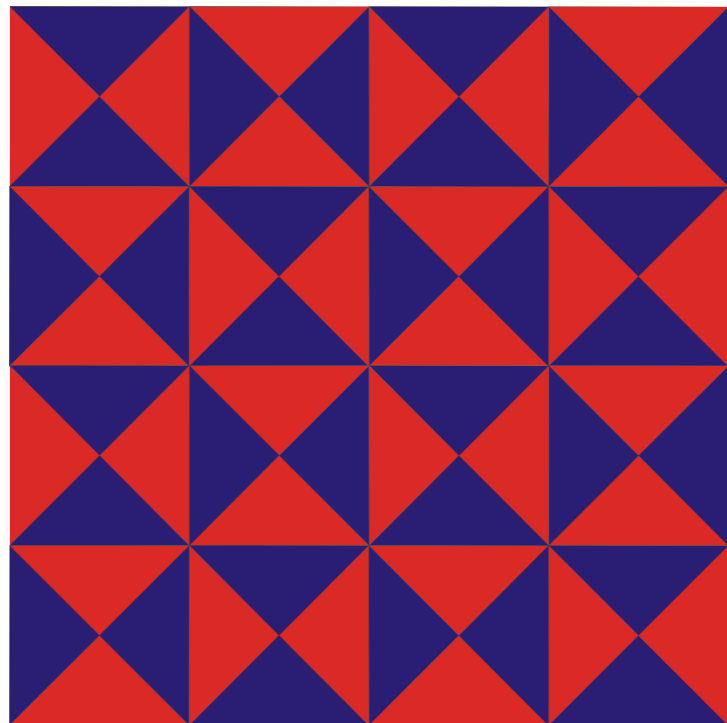
Parkietaze odbiciowe



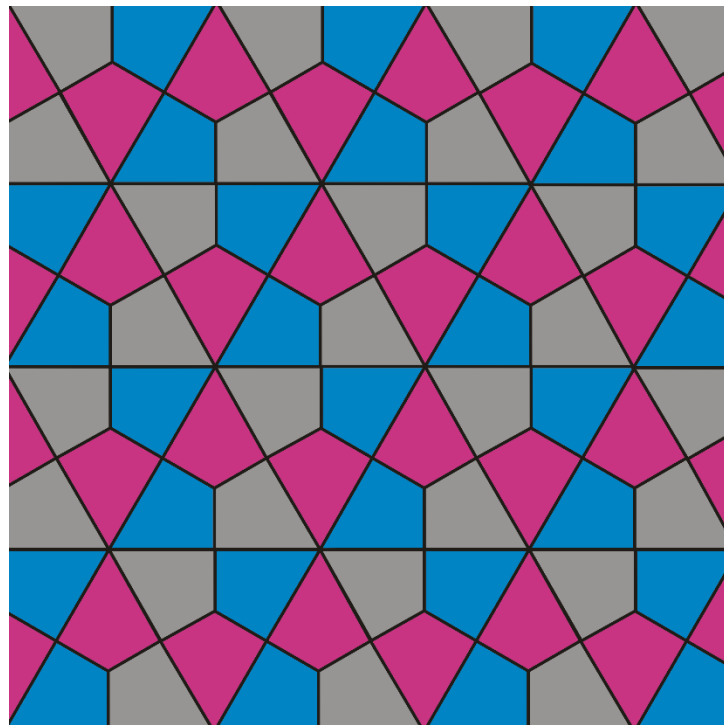
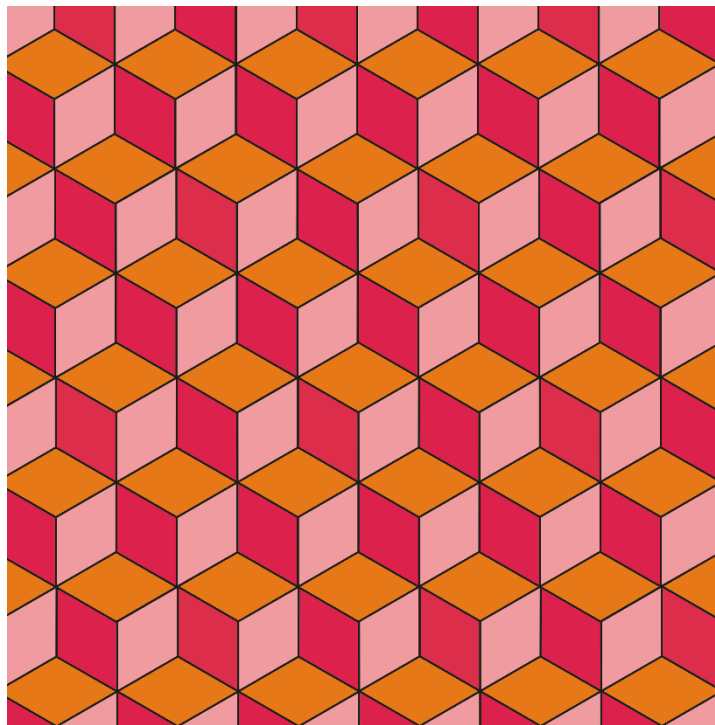
Parkietaze odbiciowe



Parkietaze odbiciowe



Parkietaze odbiciowe



Parkietaze wokół nas

The background features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. The shapes are primarily triangles and polygons, creating a dynamic, layered effect. The overall composition is clean and modern, with the text centered in a white space.

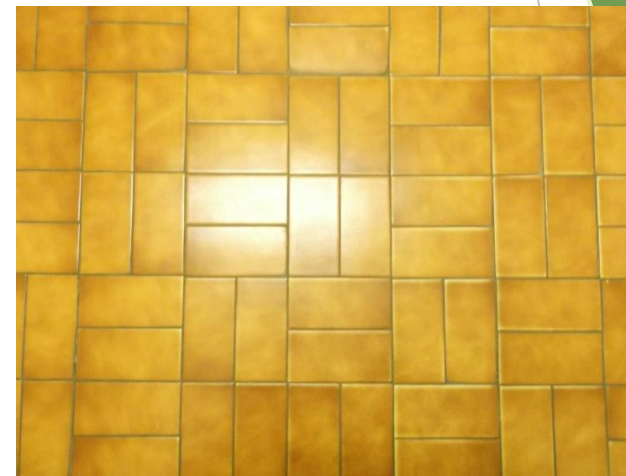
Parkietaze wokół nas



Cmentarz Żołnierzy Radzieckich,
ul. Zwirzyńska 1, Oława



Plac przed kościołem, Chrzóstawa Wielka



Szkoła Podstawowa, ul. Wrocławska 19,
Chrzóstawa Wielka

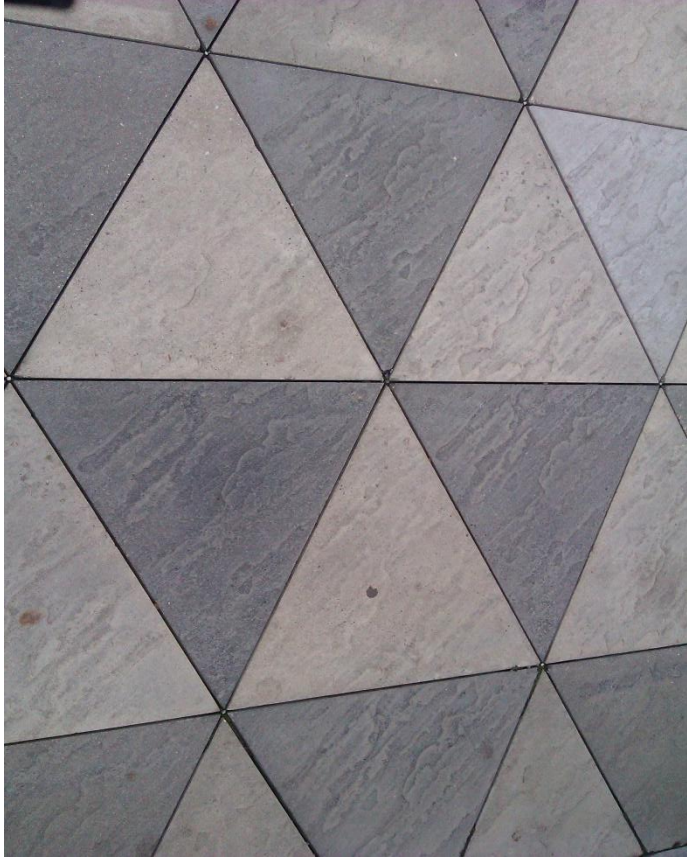


Plac przed kościołem, Chrzóstawa Wielka

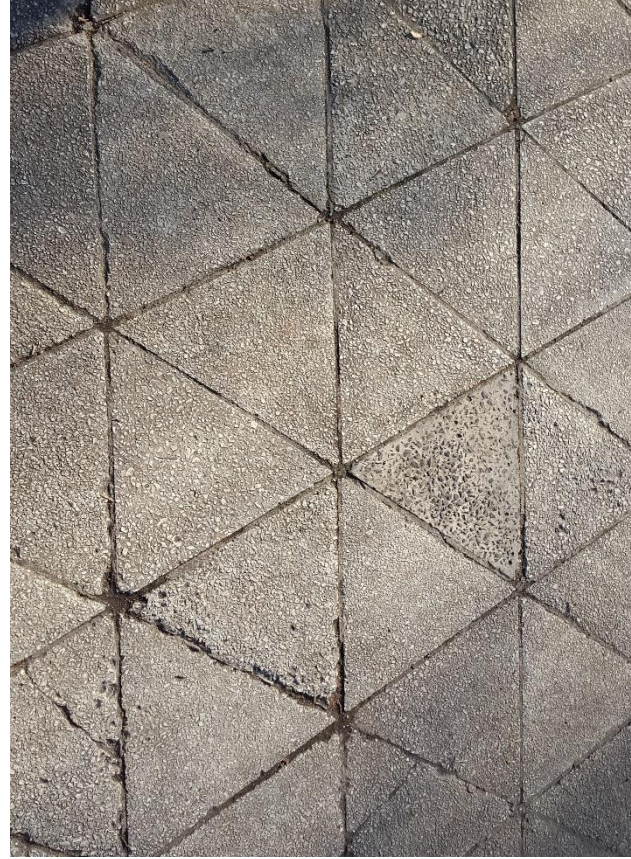


Plac przed kościołem, Chrzóstawa Wielka

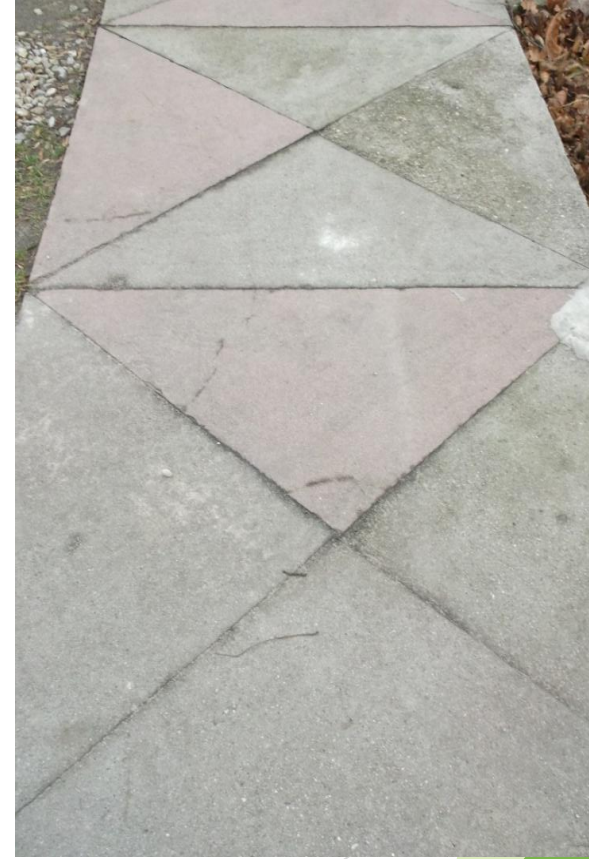
Parkietaze wokół nas



ul. Bujwida, Wrocław



Most Grunwaldzki, Wrocław



ul. Wrocławska, Chrząstawa Mała

Parkietaze wokół nas



Kościół, Nadolice Wielkie

Parkietaze wokół nas



mieszkania prywatne, Chrzóstawa Wielka

Parkietaze wokół nas

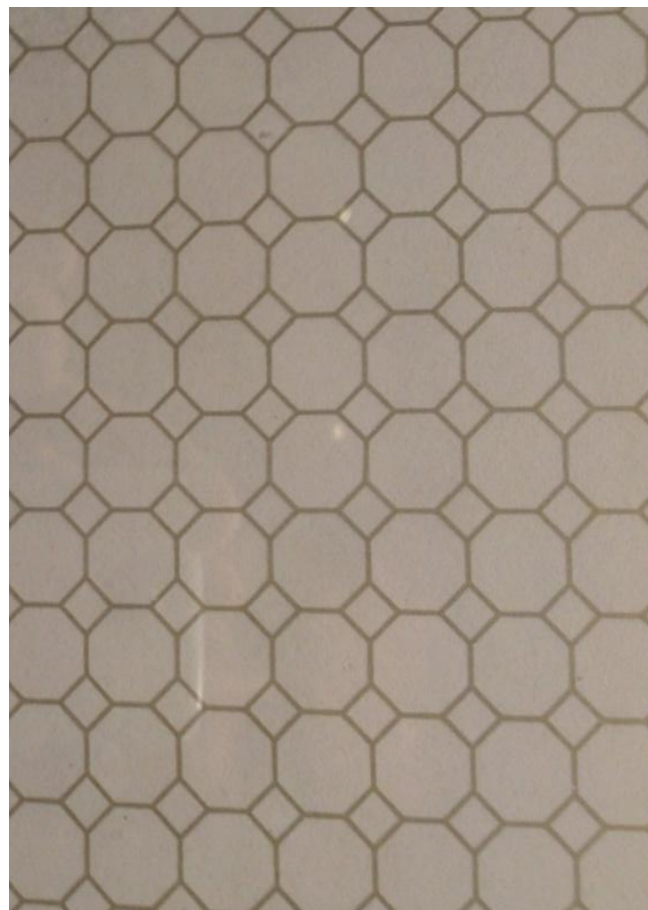


kościół, ul. Młynarska 12, Nidzica

Parkietaze wokół nas



plac Defilad, Warszawa



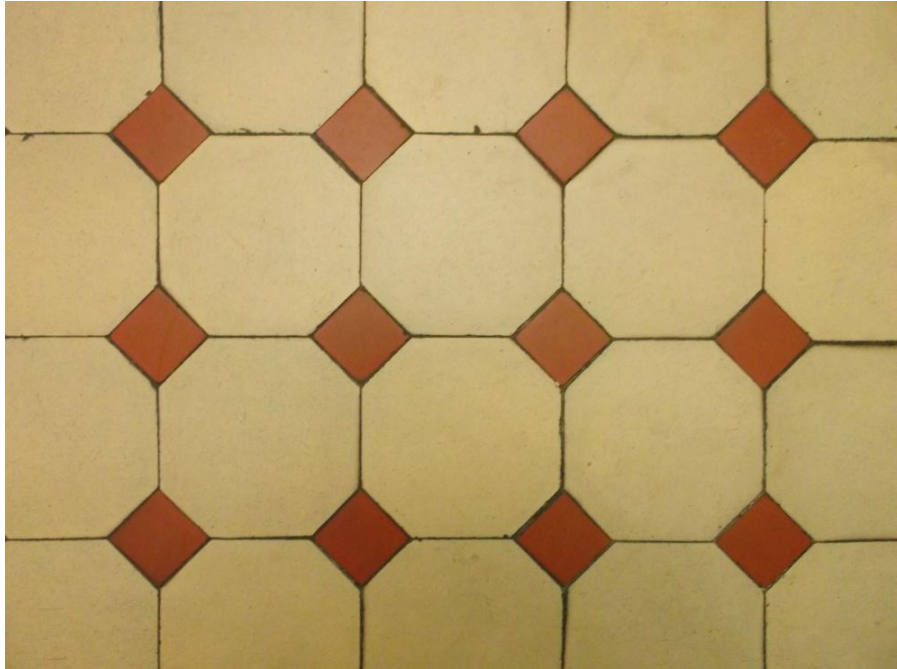
mieszkanie prywatne, Oława

Parkietaze wokół nas



mieszkanie prywatne, Warszawa

Parkietaze wokół nas



mieszkanie prywatne, Chrzóstawa Wielka

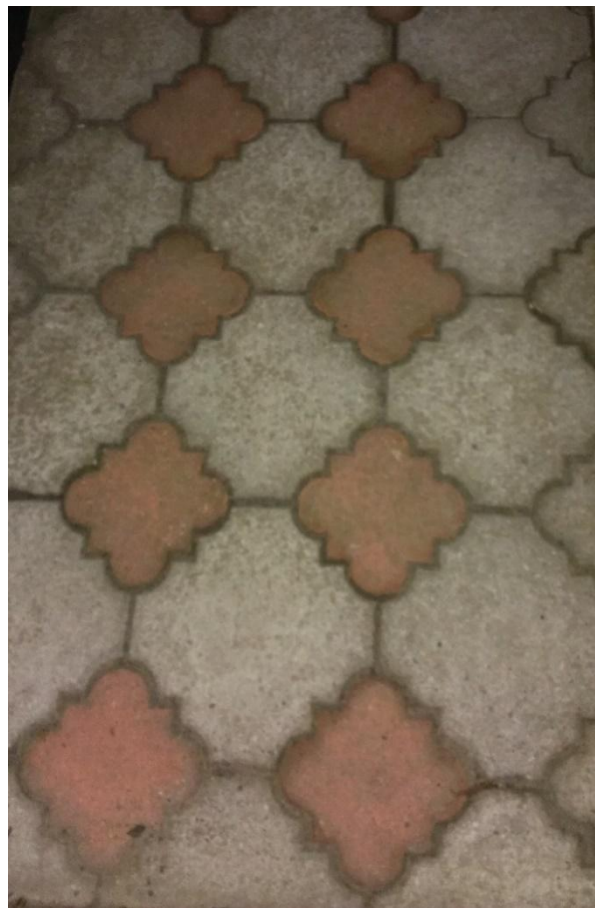


Ujazdów, Warszawa

Parkietaze wokół nas



Cmentarz Żołnierzy Radzieckich,
ul. Zwierzyniecka 1, Oława



Cmentarz Żołnierzy Radzieckich,
ul. Zwierzyniecka 1, Oława



mieszkanie prywatne, Jelenia Góra

Parkietaze wokół nas



Cmentarz Żołnierzy Radzieckich,
ul. Zwierzyniecka 1, Oława



ul. Wrocławska, Chrzęstawa Wielka

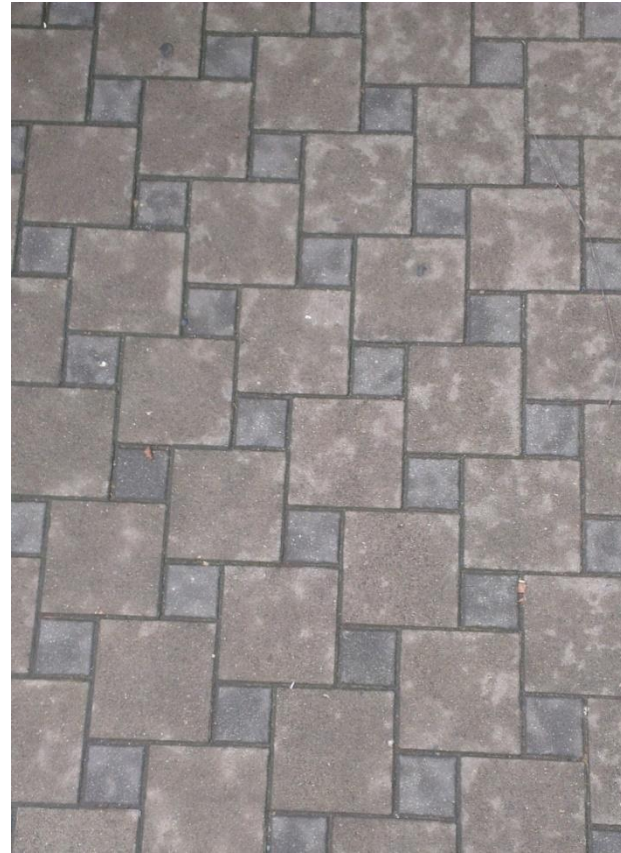


ul. Krucza, Chrzęstawa Wielka

Parkietaze wokół nas



ul. Oławska, Wrocław



ul. Sienkiewicza, Wrocław

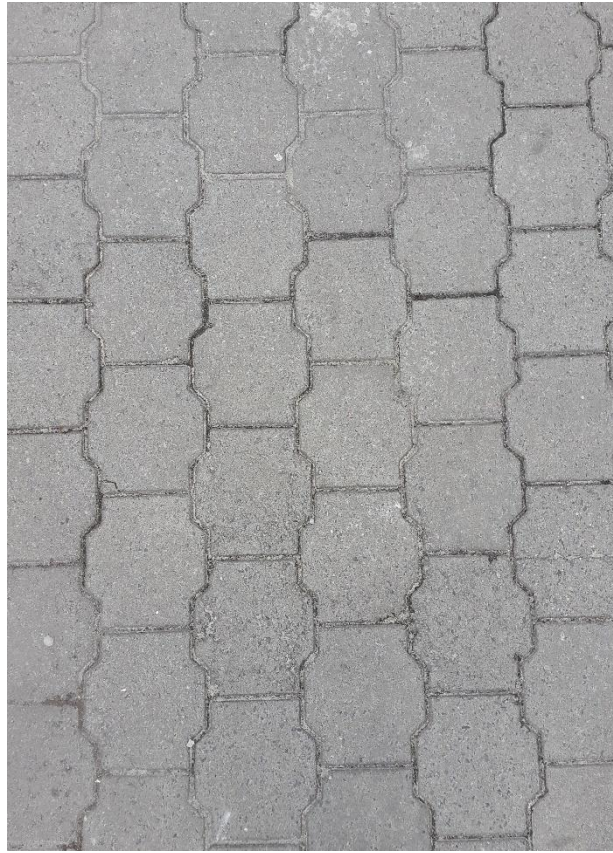


ul. Hubska, Wrocław

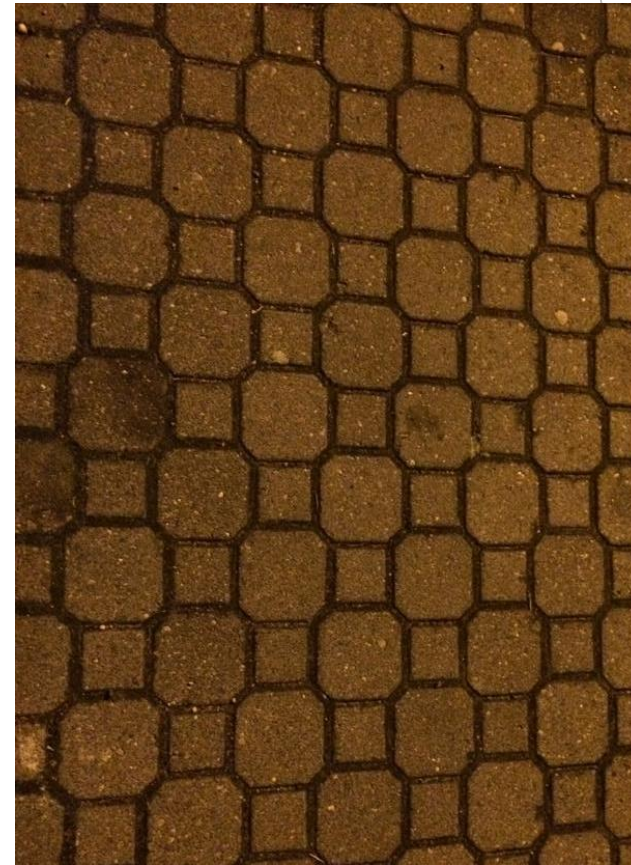
Parkietaze wokół nas



ul. Lipowa, Oława



ul. Wspólna, Warszawa



ul. Lipowa, Oława

Dziękuję za uwagę!

