



## **GD – AULA TEÓRICA 4**

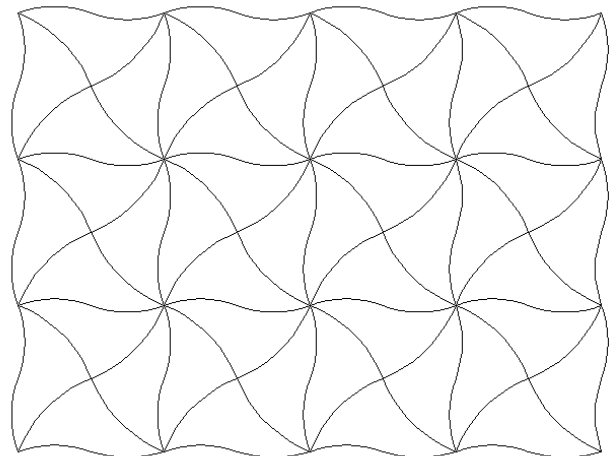
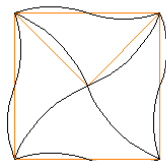
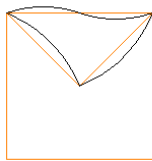
Outras formas de gerar padrões de pavimentações através de:

- reflexões, reflexões deslizantes, rotações.
- afinidades, transformações projectivas, transformações topológicas.



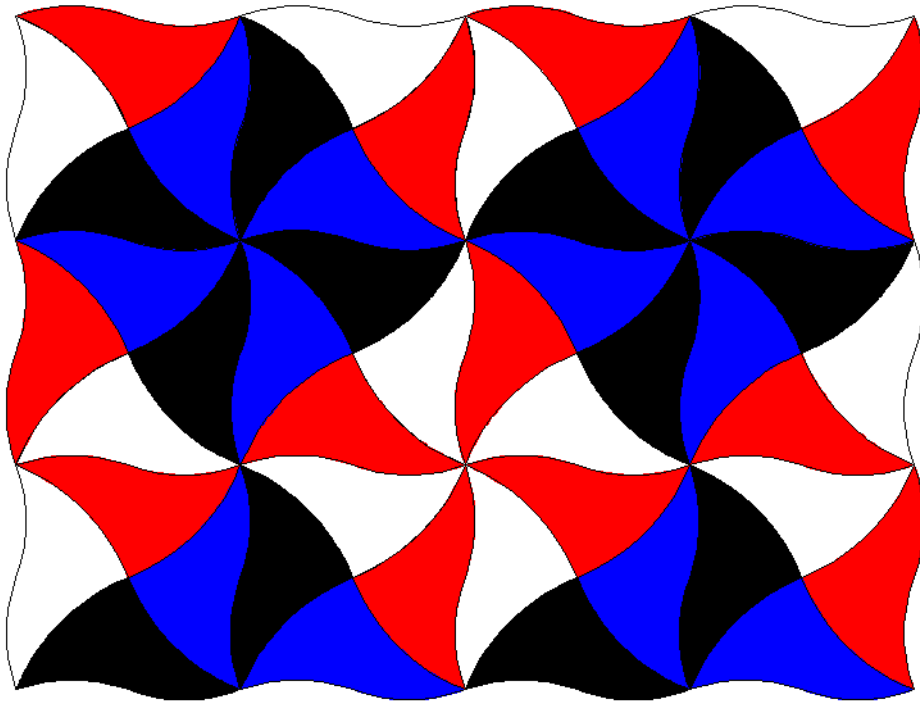
## >> PADRÕES

GERAÇÃO POR ROTAÇÕES DE 90°.





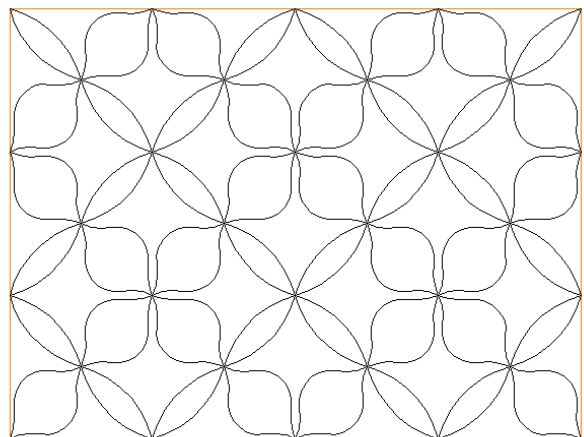
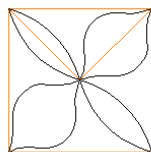
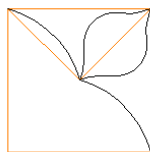
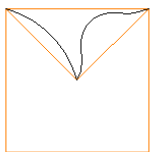
>> PADRÕES





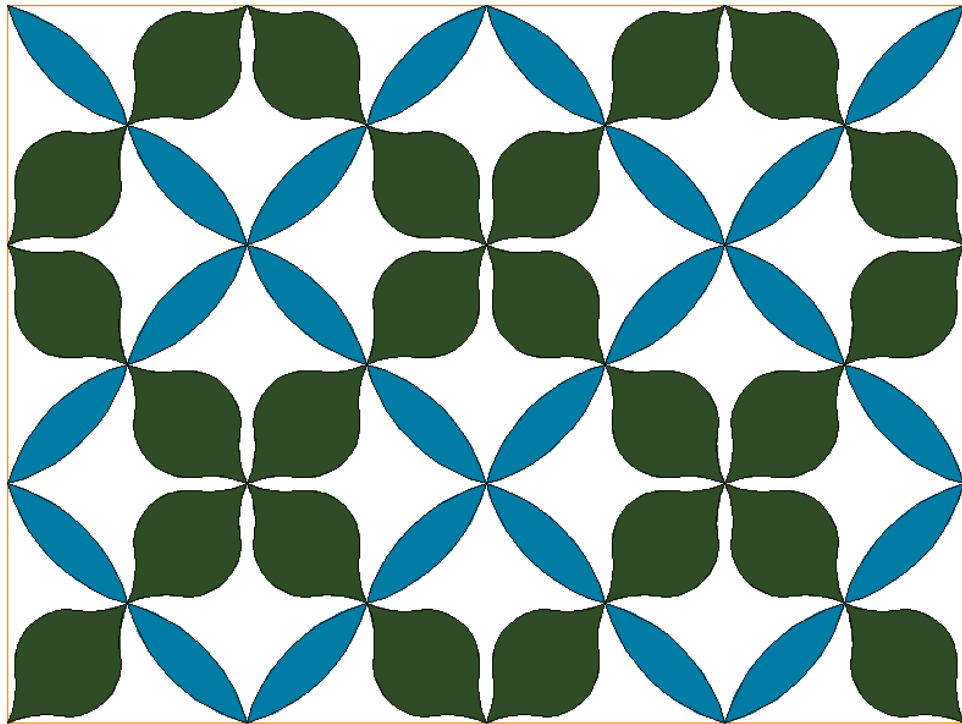
## >> PADRÕES

### GERAÇÃO POR REFLEXÕES





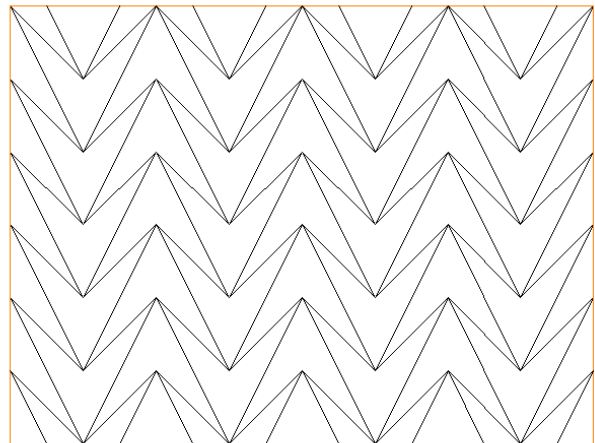
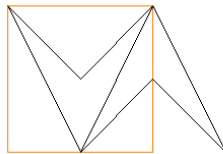
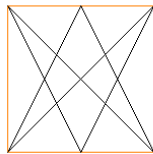
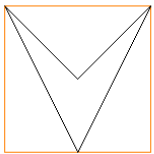
>> PADRÕES





## >> PADRÕES

### GERAÇÃO POR REFLEXÃO DESLIZANTE





>> PADRÕES

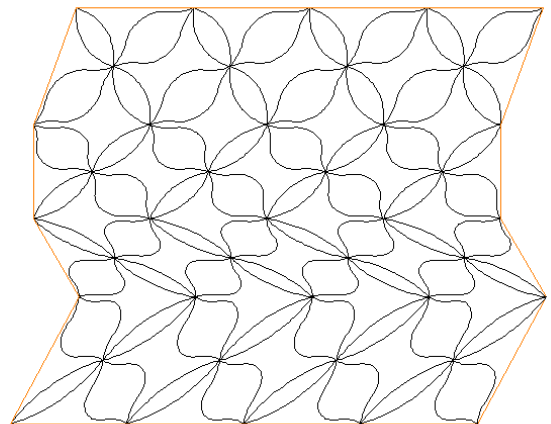
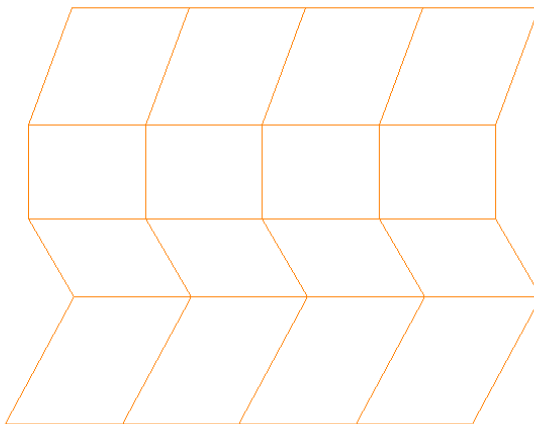
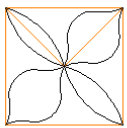




## >> PADRÕES

### GERAÇÃO POR TRANSFORMAÇÃO AFIM DA CÉLULA INICIAL

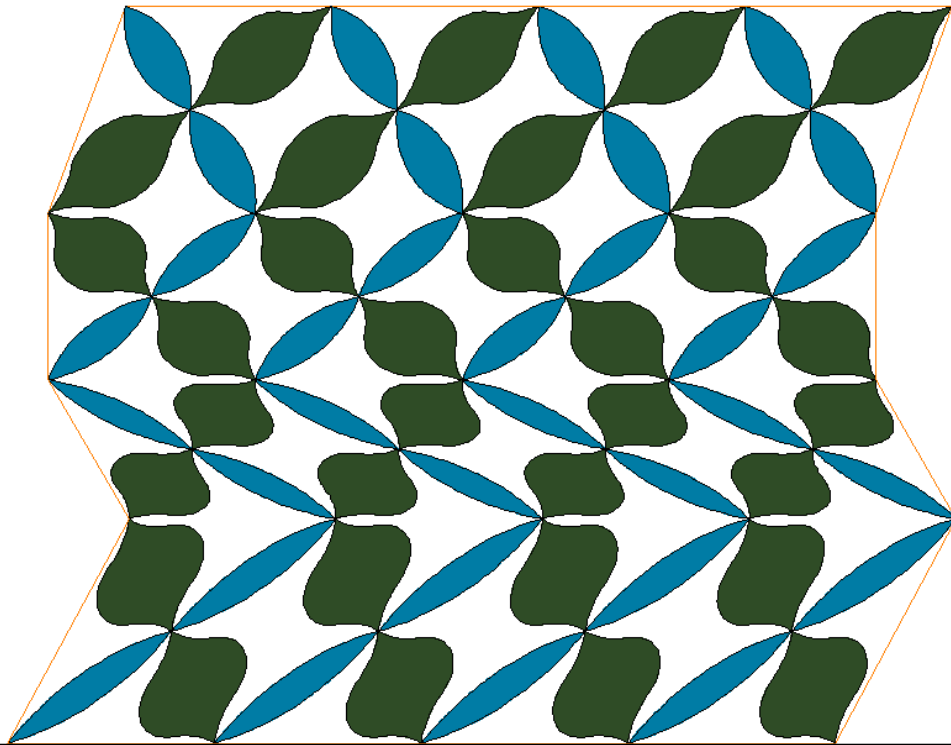
- Uma transformação afim transforma linhas rectas em linhas rectas mantendo a incidência entre pontos e linhas, mantém o paralelismo, e mantém as proporções para cada direcção de rectas







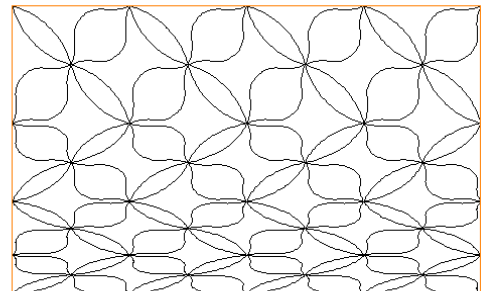
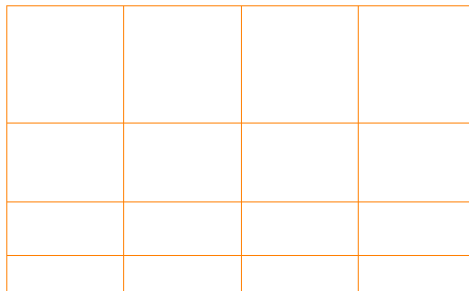
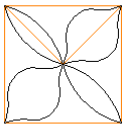
>> PADRÕES





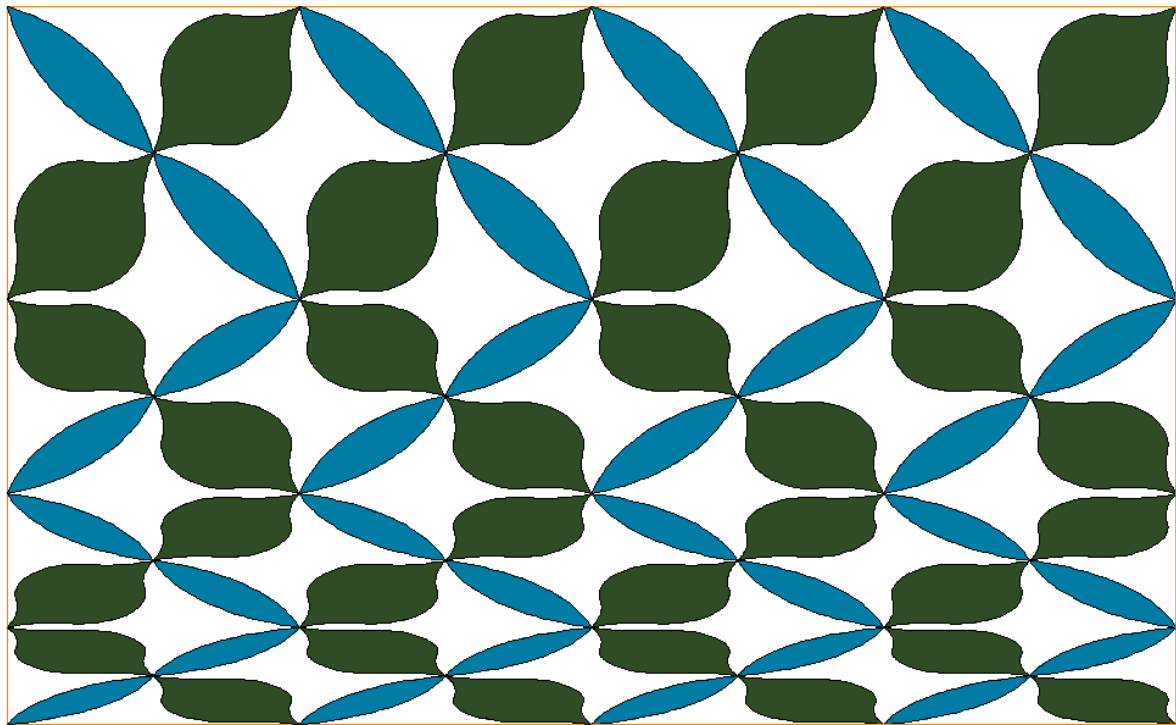
## >> PADRÕES

GERAÇÃO POR TRANSFORMAÇÃO AFIM DA CÉLULA INICIAL





>> PADRÕES

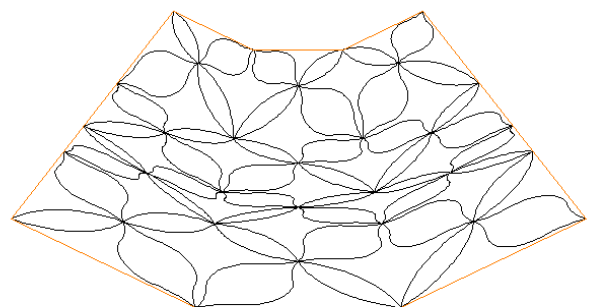
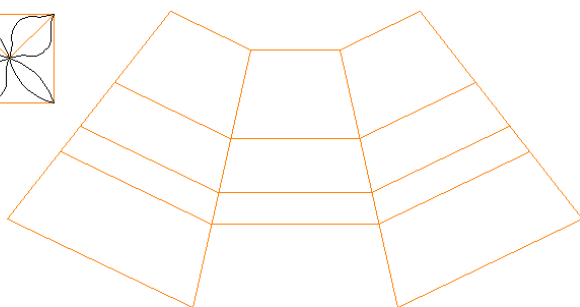
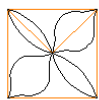




## >> PADRÕES

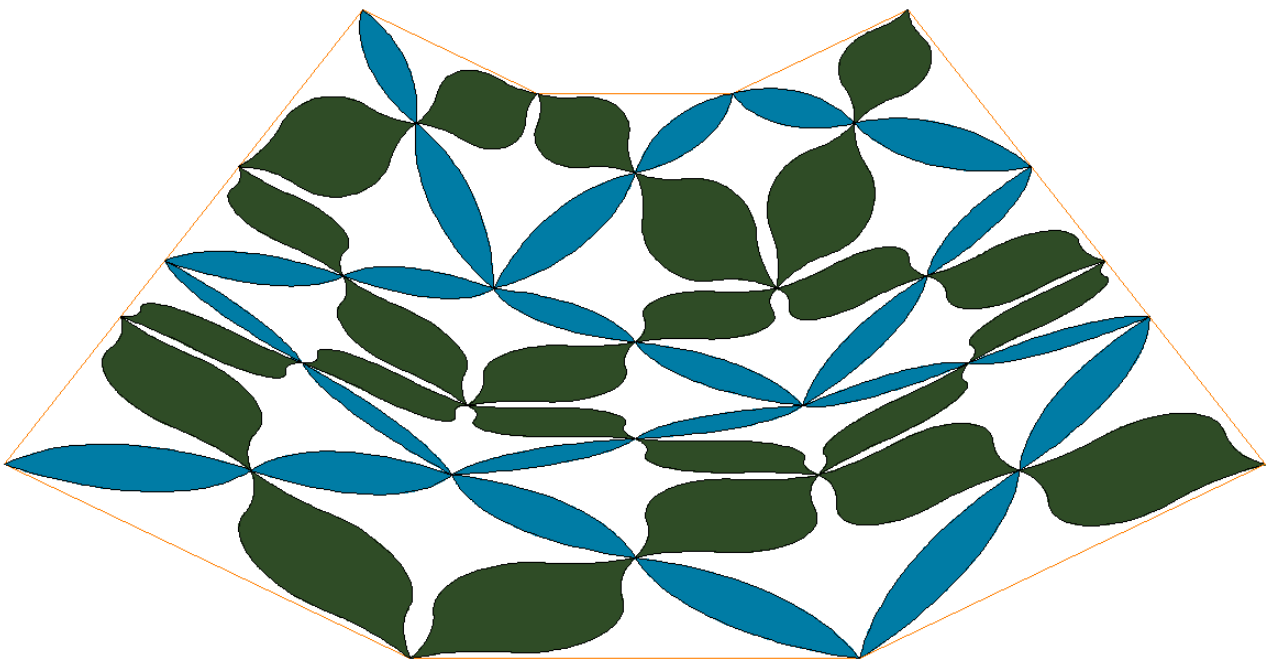
### GERAÇÃO POR TRANSFORMAÇÃO PROJECTIVA DA CÉLULA INICIAL

- Uma transformação projectiva transforma linhas rectas em linhas rectas mantendo a incidência entre pontos e linhas, não mantém o paralelismo, e não mantém as proporções para cada direcção de rectas.





>> PADRÕES

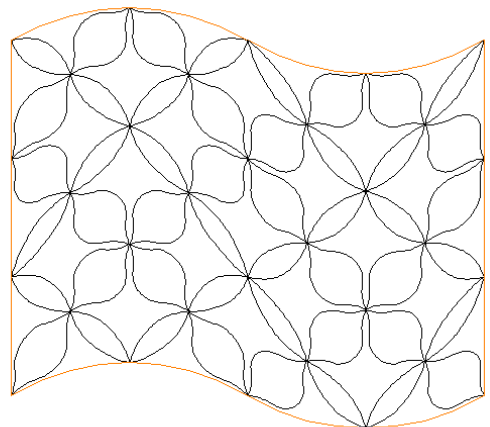
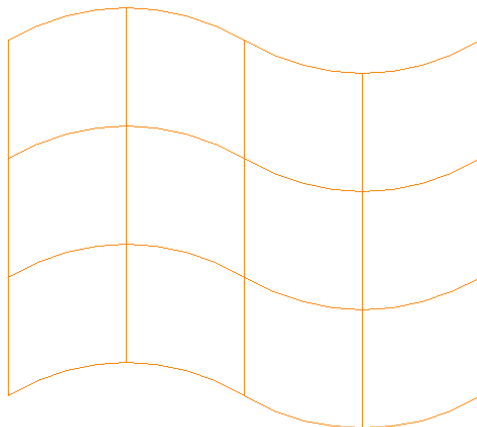
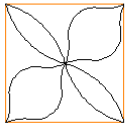




## >> PADRÕES

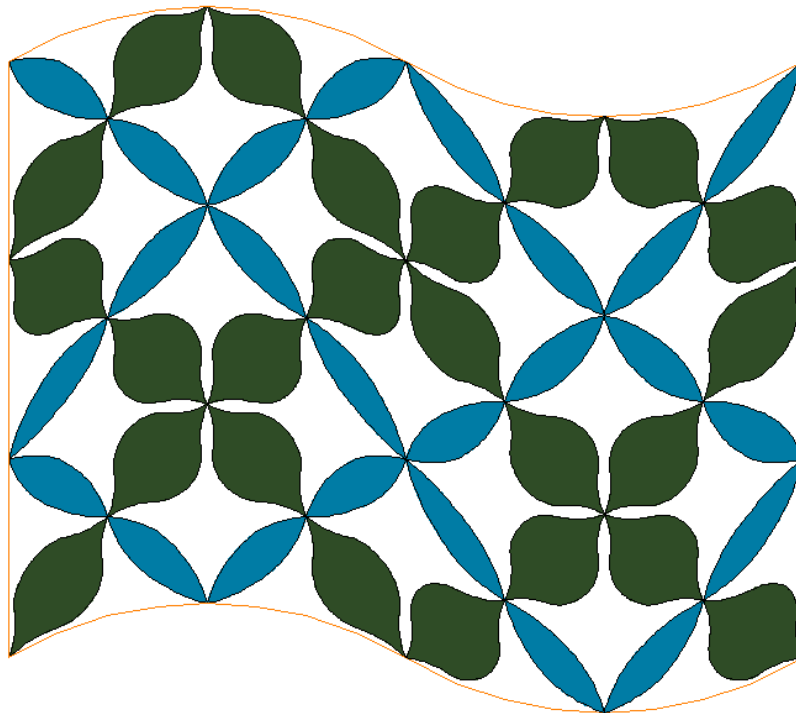
### GERAÇÃO POR TRANSFORMAÇÃO TOPOLÓGICA DA CÉLULA INICIAL

- Uma transformação topológica transforma linhas rectas em linhas curvas mantendo a incidência entre pontos e linhas.





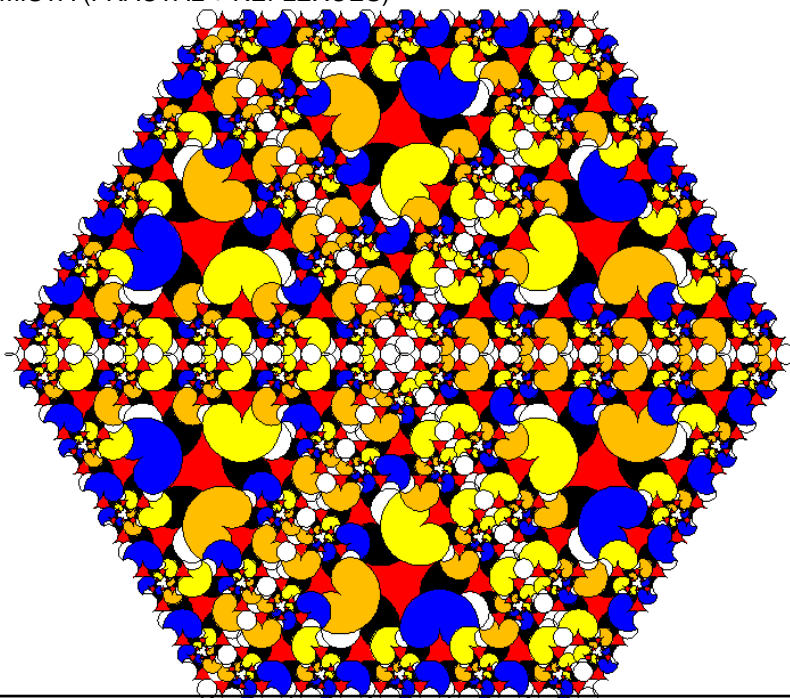
>> PADRÕES





## >> PADRÕES

ABORDAGEM MISTA (FRACTAL + REFLEXÕES)







## >> PADRÕES

### ABORDAGEM MISTA (FRACTAL + REFLEXÕES)

