

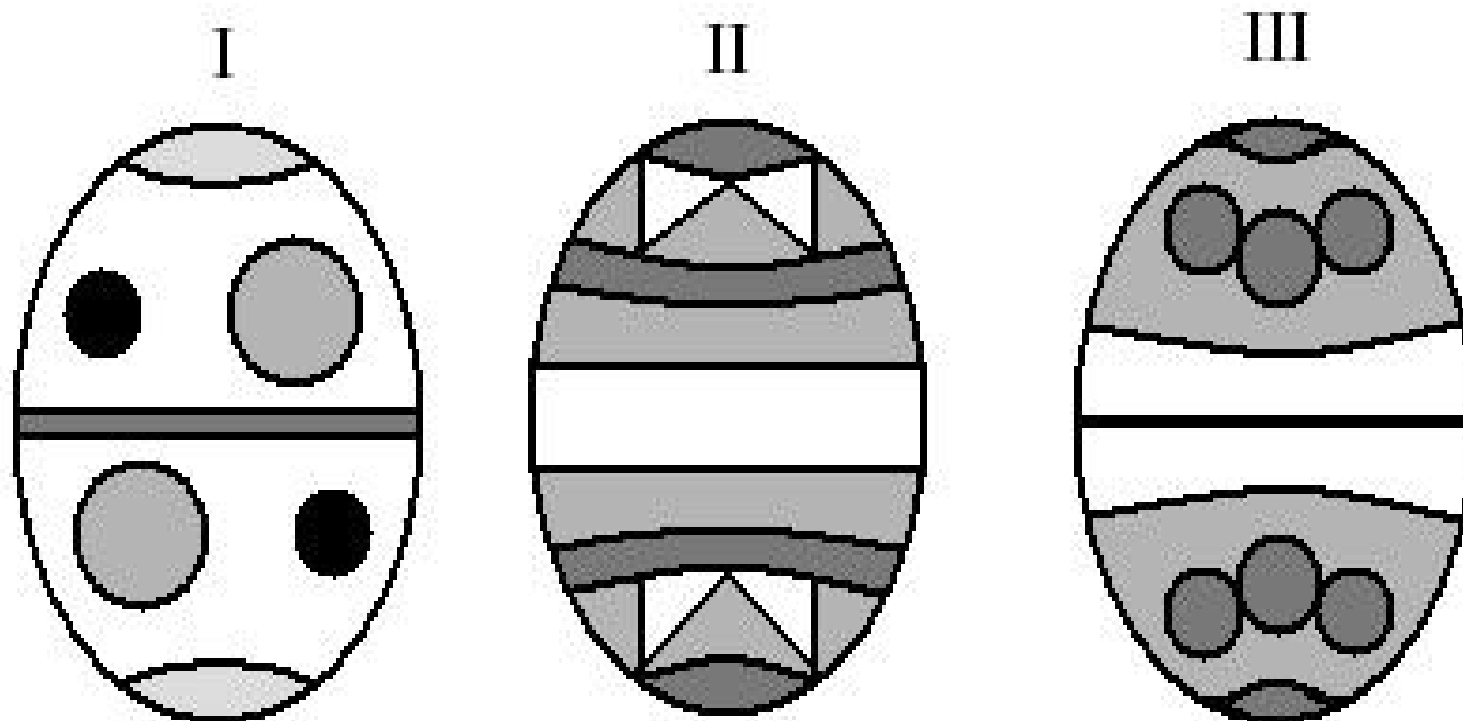
**2014**

**Międzynarodowy Rok  
Krystalografii**

**UNESCO**

United Nations Educational, Scientific and  
Cultural Organization

Organizacja Narodów Zjednoczonych do  
spraw Oświaty, Nauki i Kultury

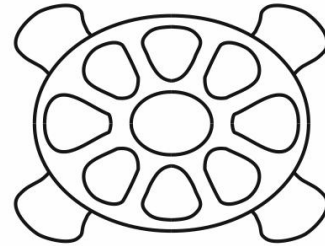
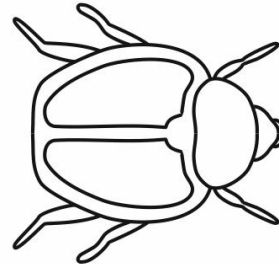
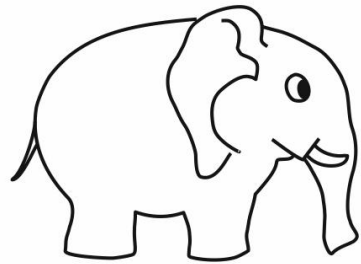


A - środek symetrii i dwie osie symetrii

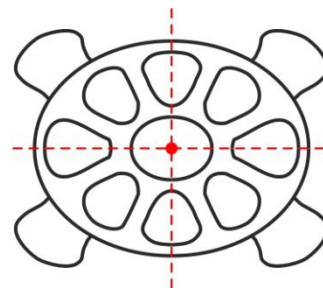
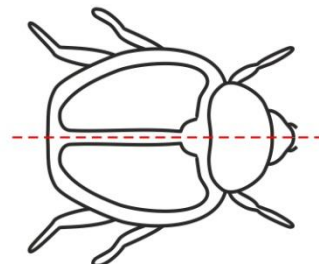
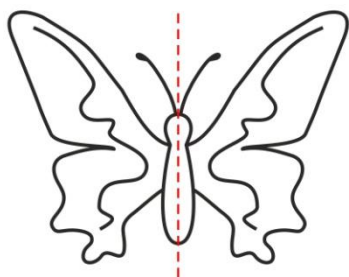
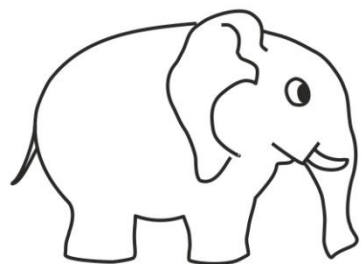
B - środek symetrii i brak osi symetrii

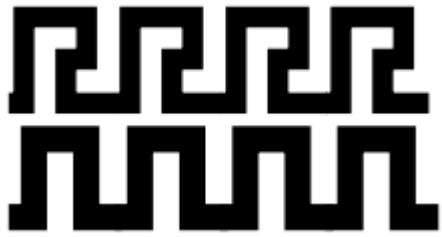
C - brak środka symetrii i jedna oś symetrii

A co do tego mają zwierzątka?

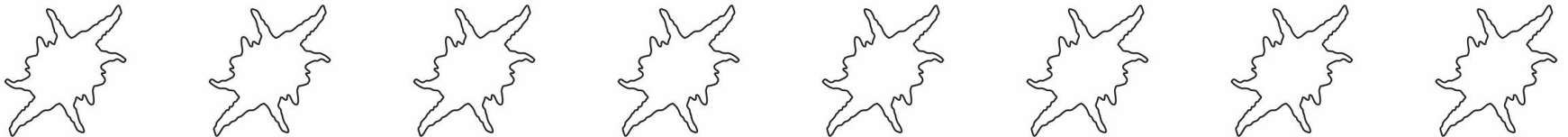
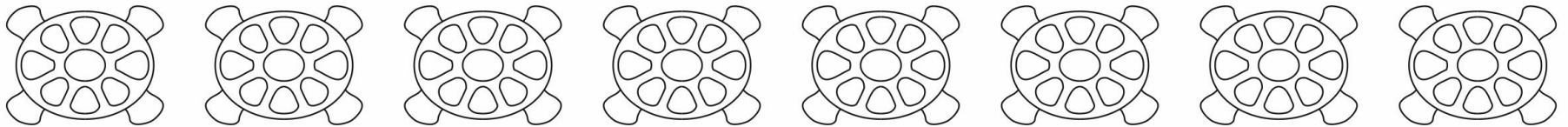
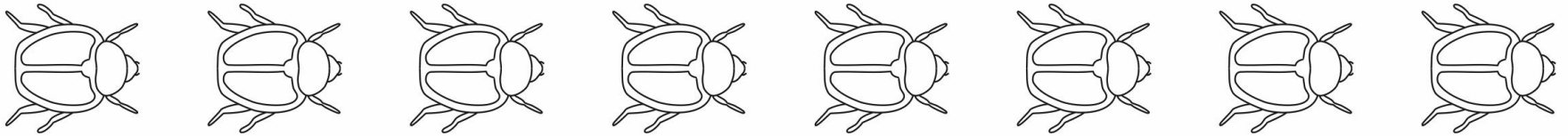
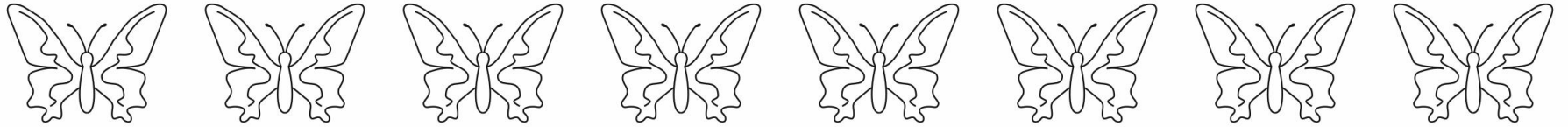
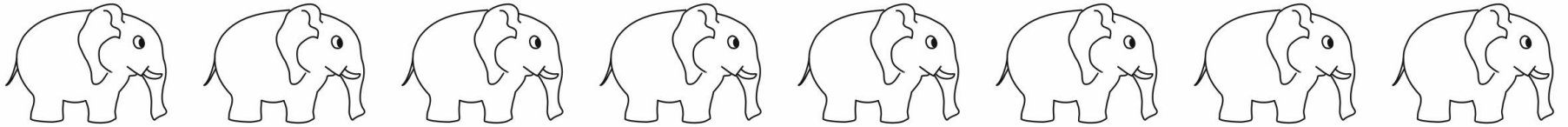
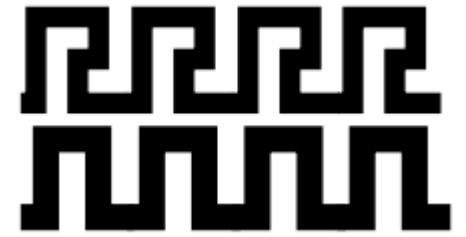


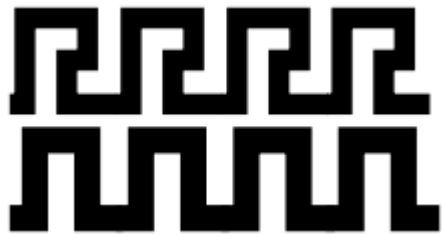
# A co do tego mają zwierzątka?



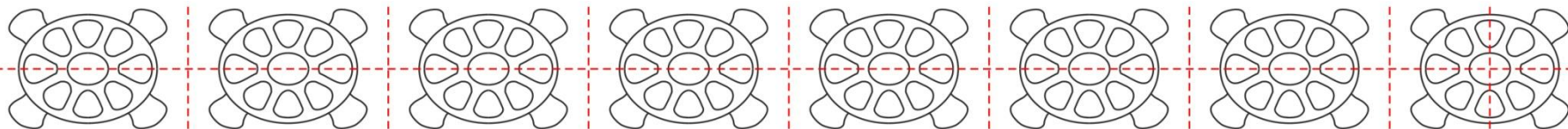
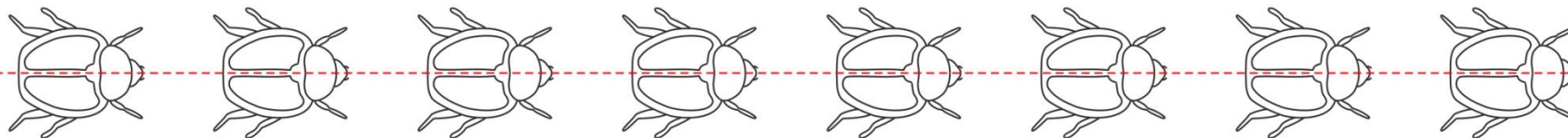
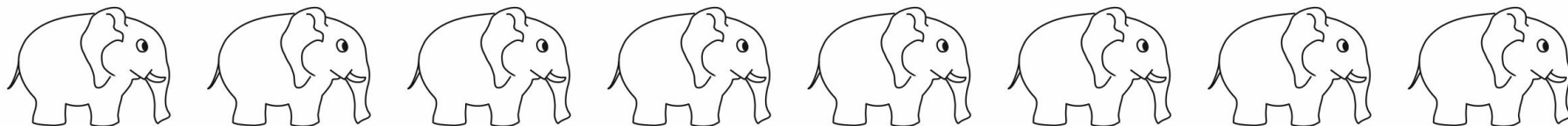
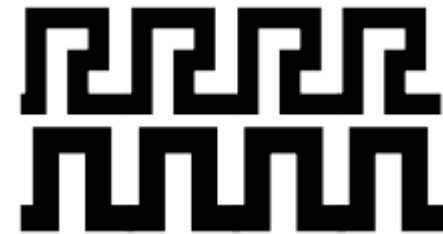


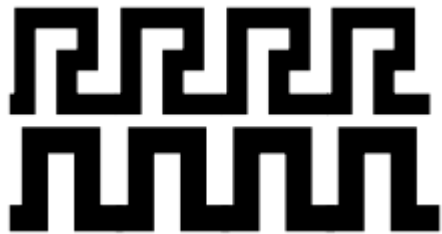
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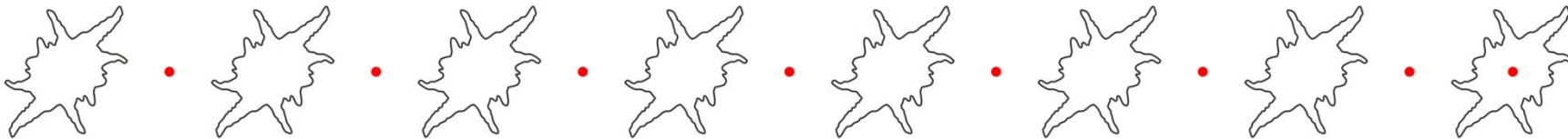
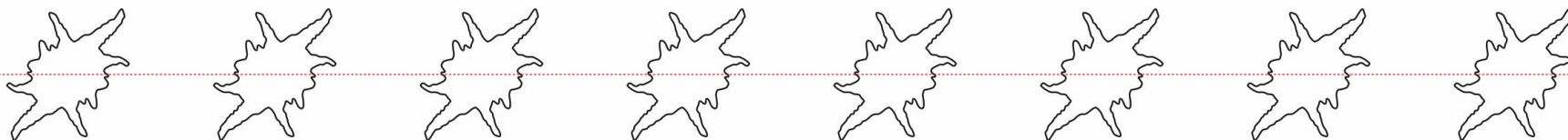
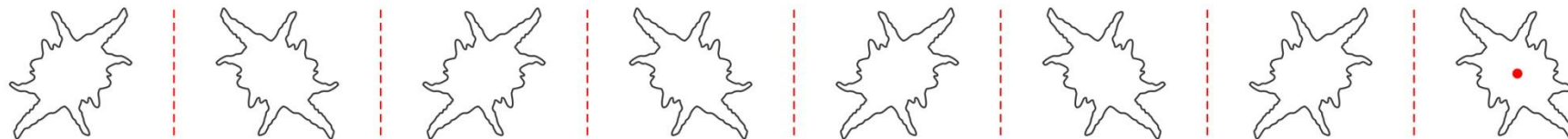
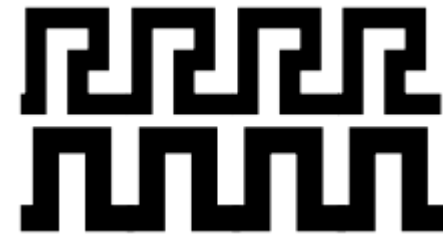


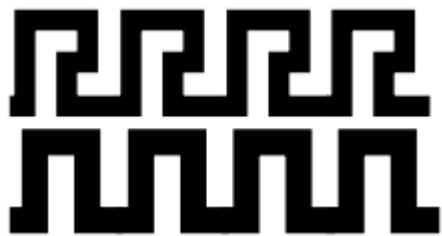
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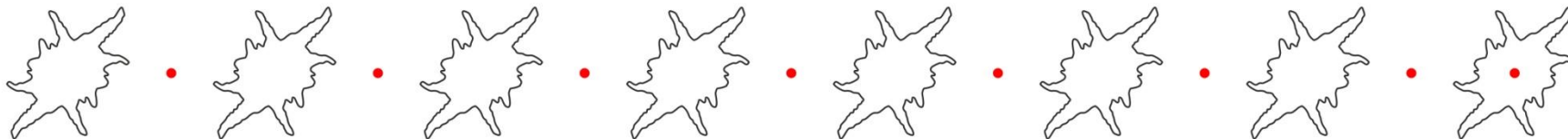
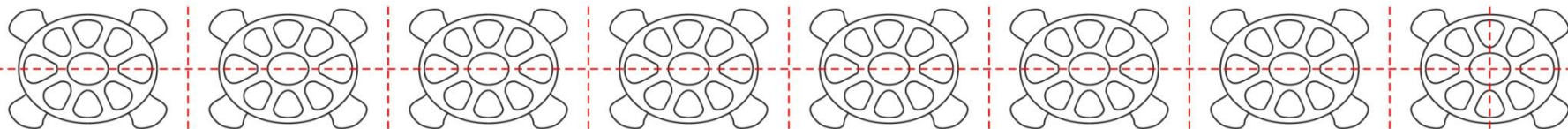
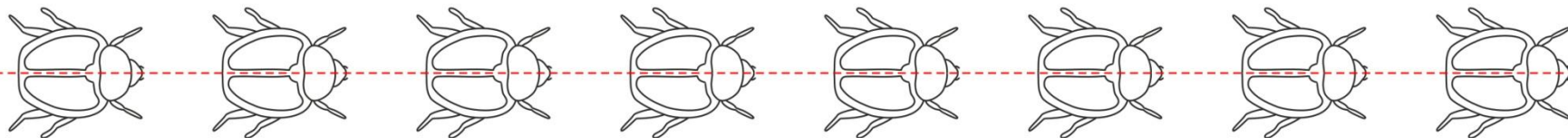
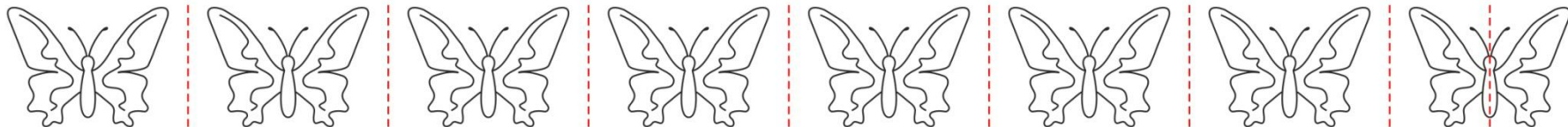
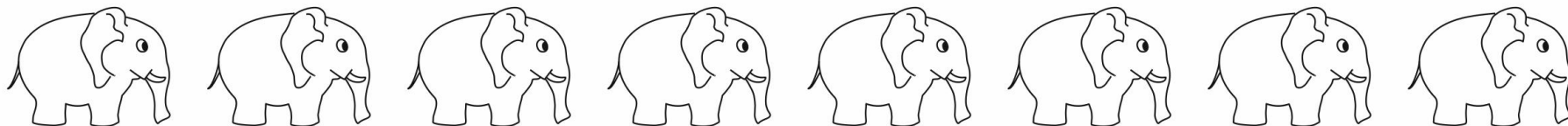
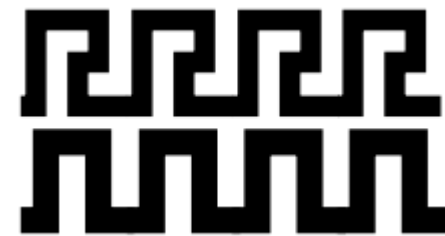


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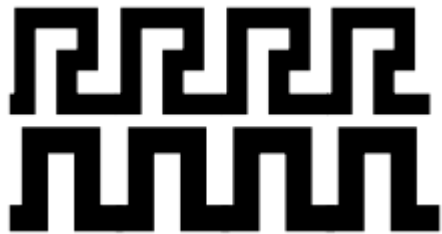




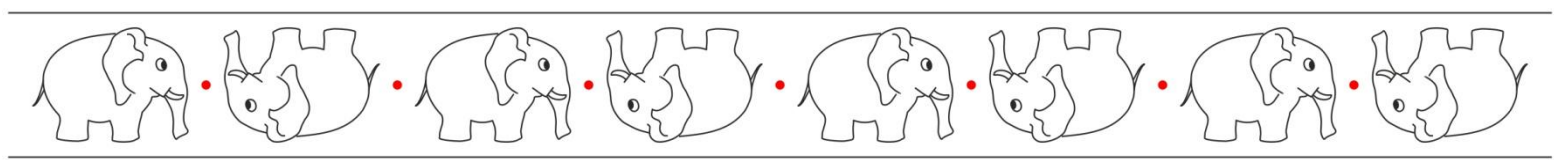
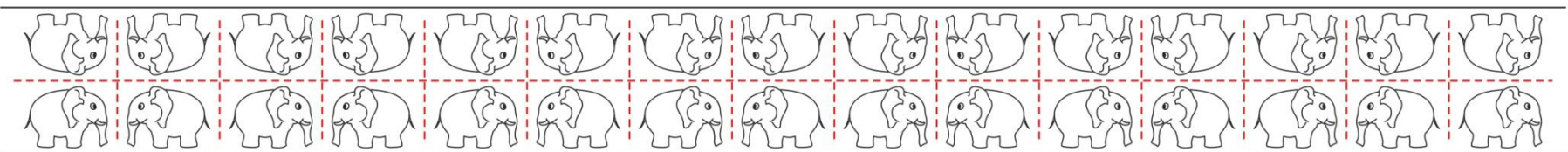
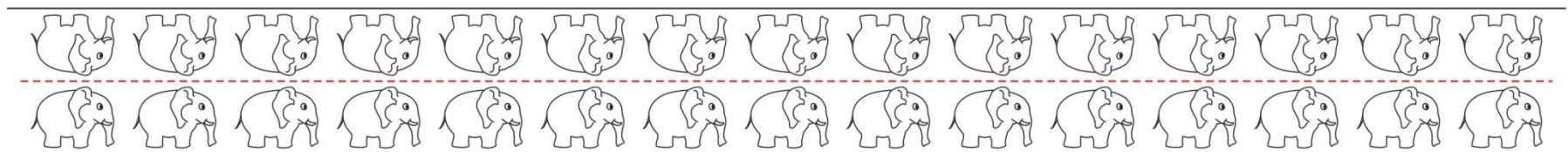
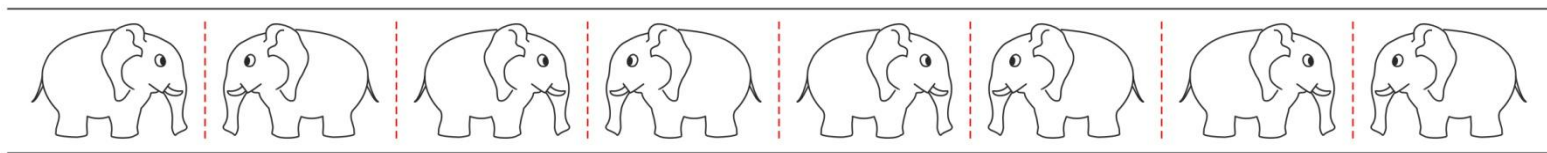
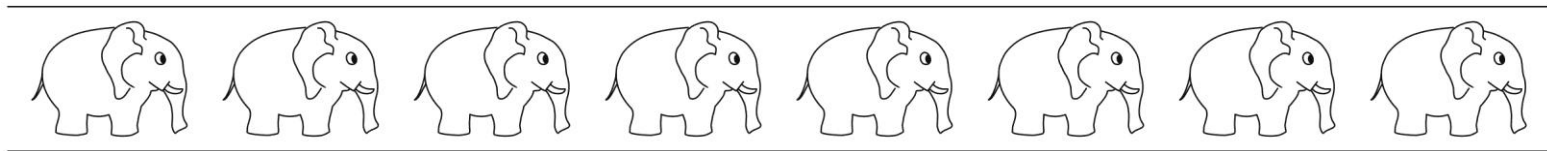
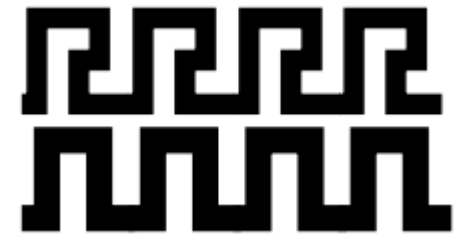
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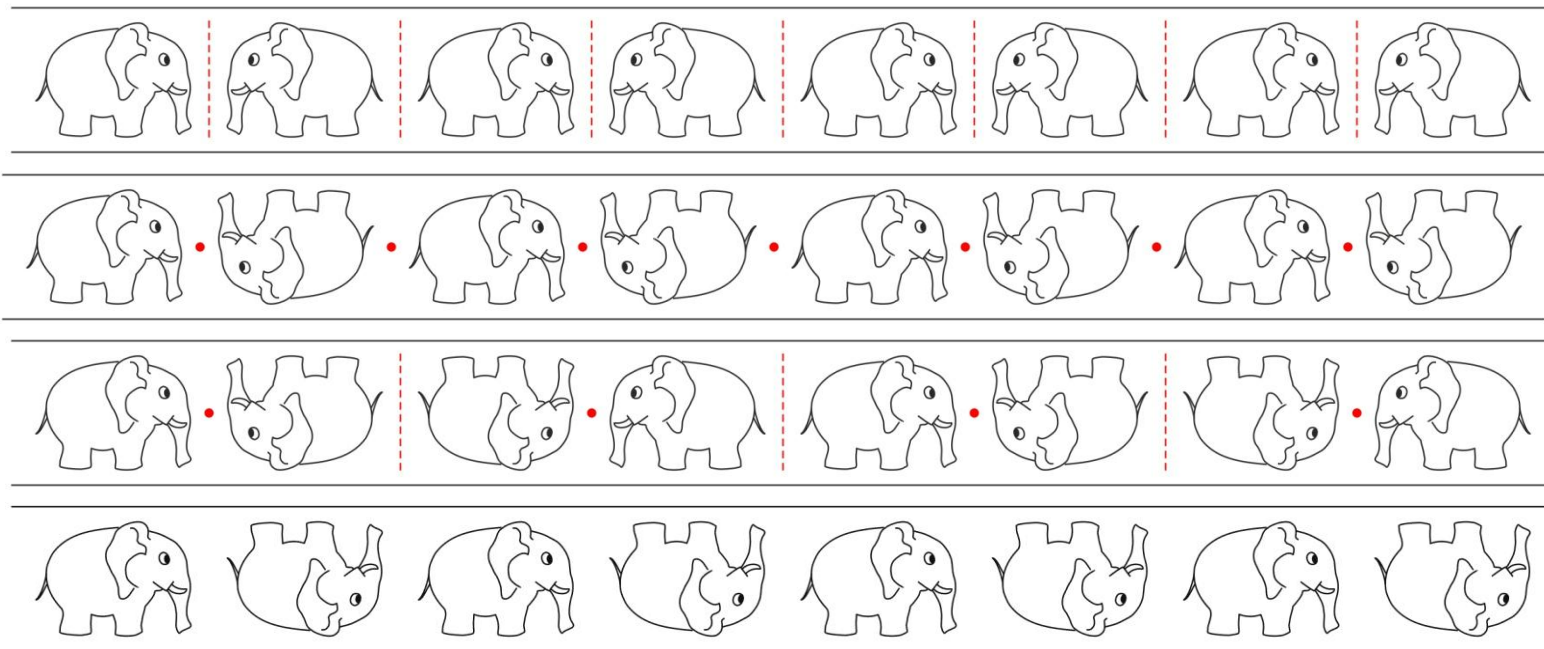
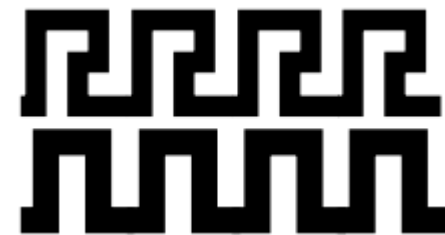


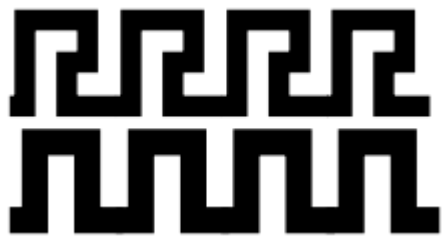
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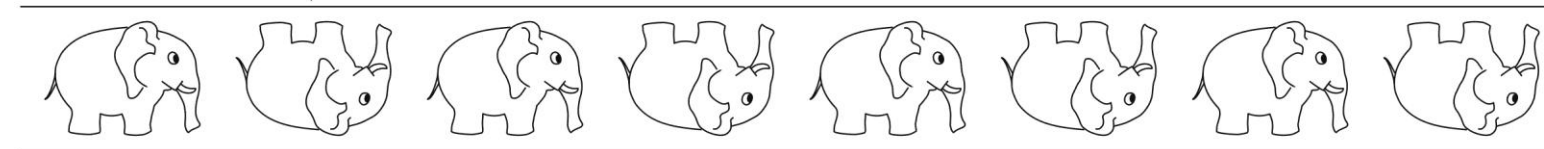
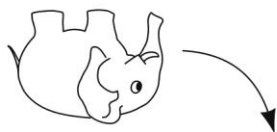
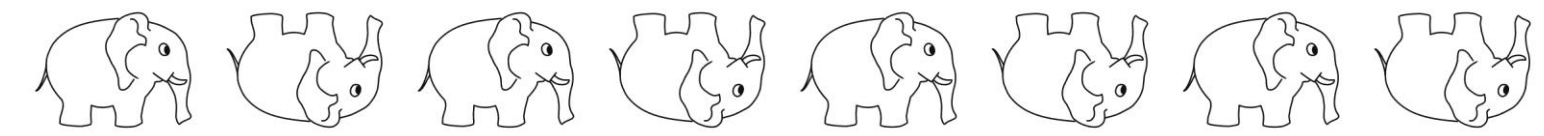
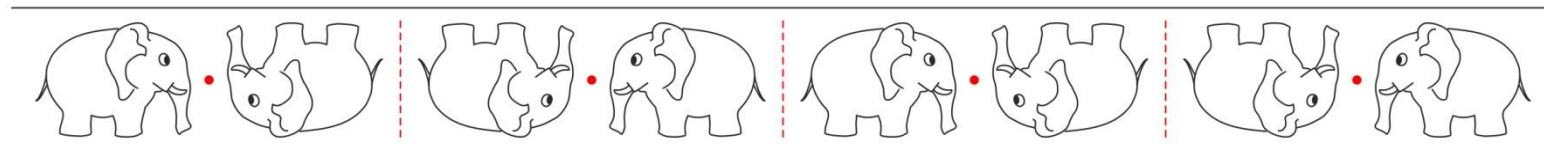
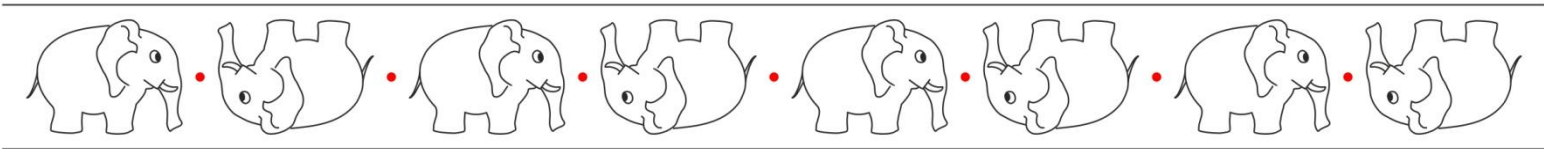
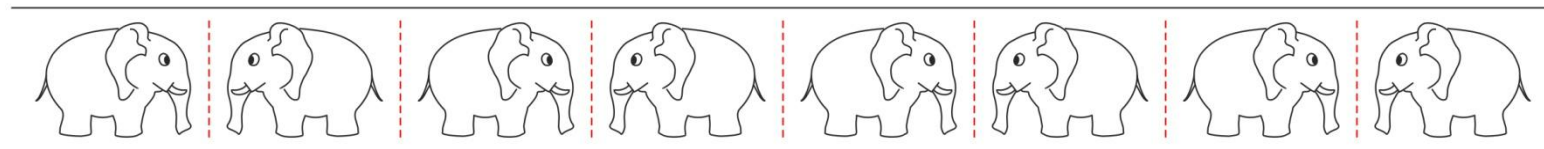
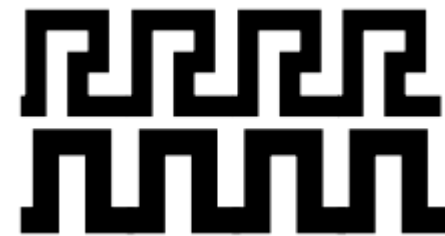


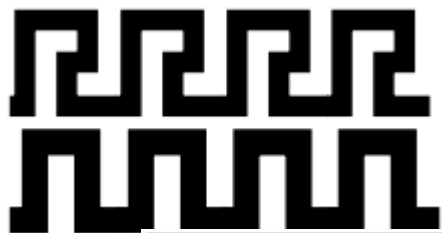
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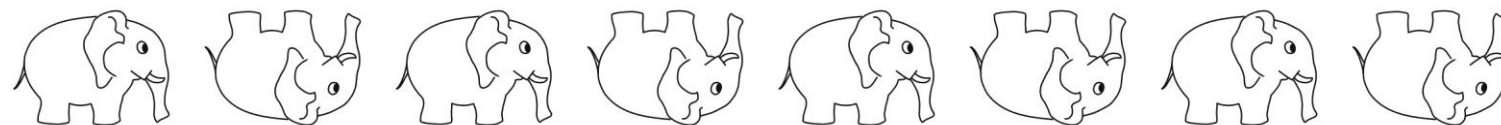
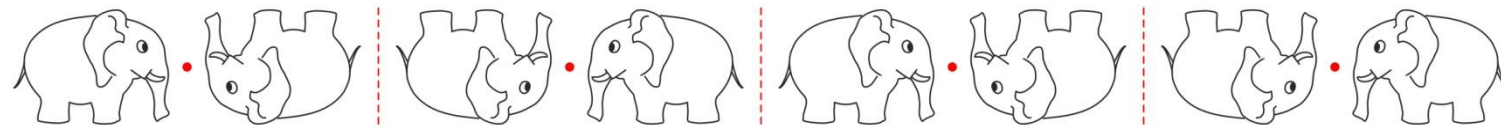
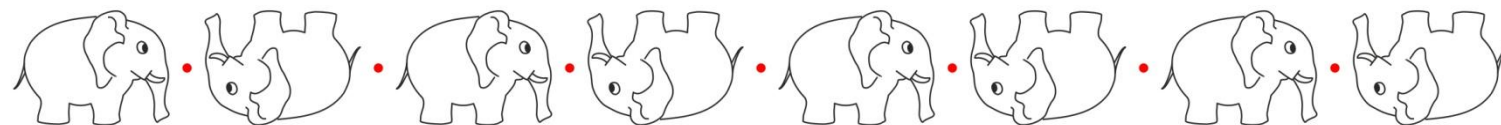
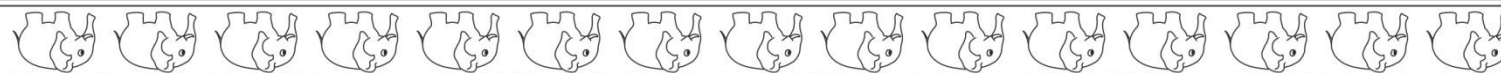
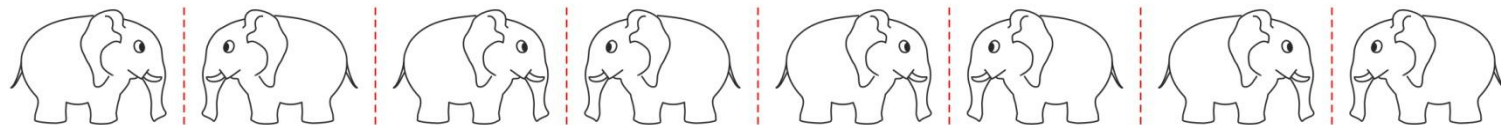
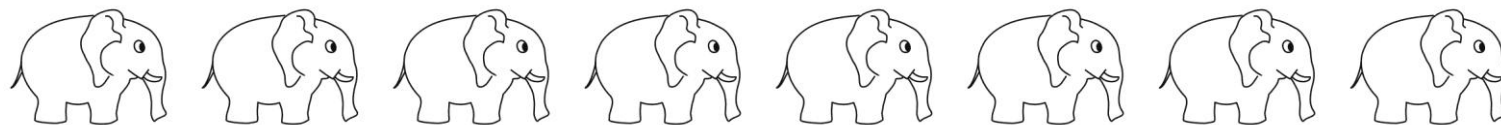
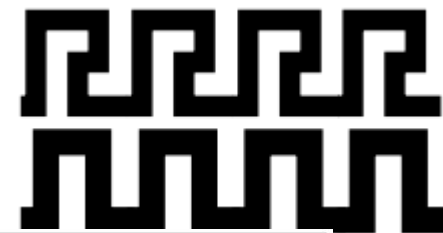


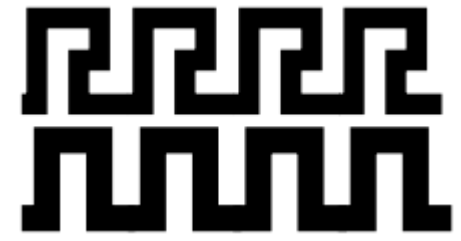
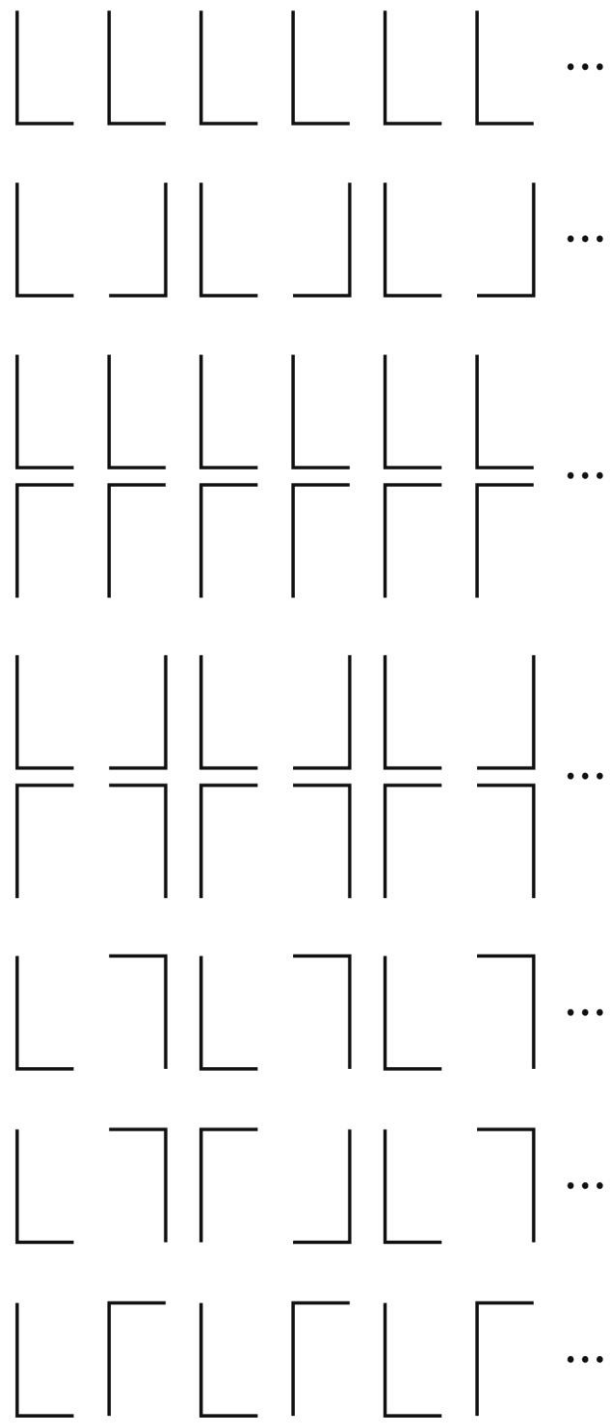
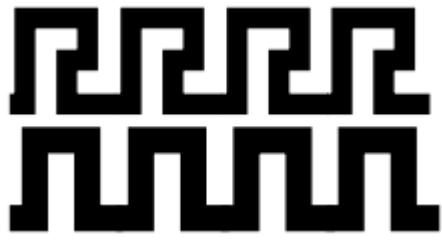
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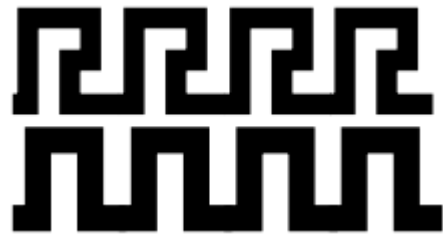
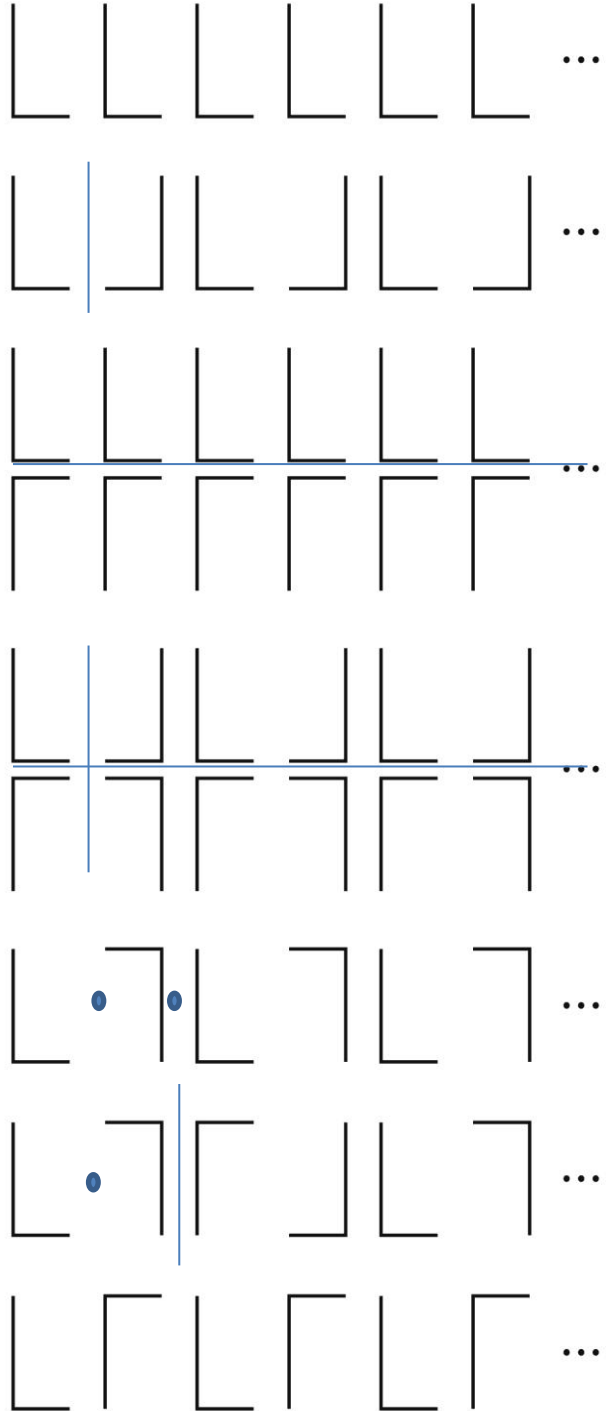
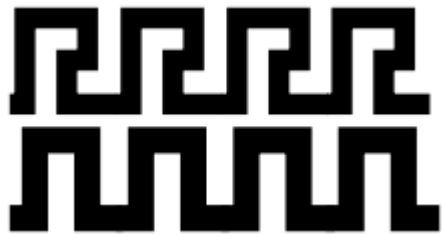


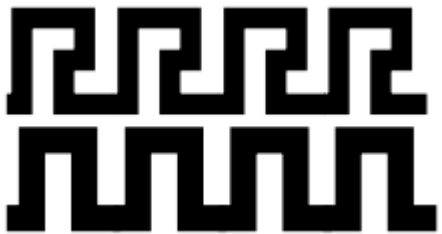


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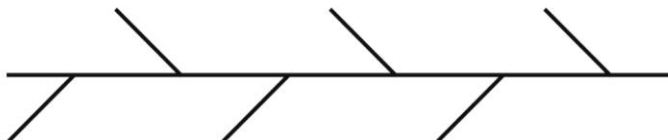
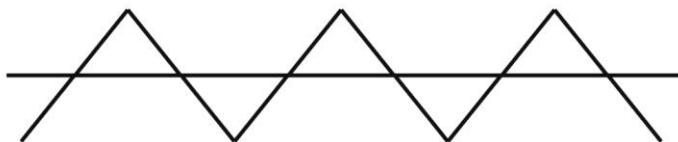
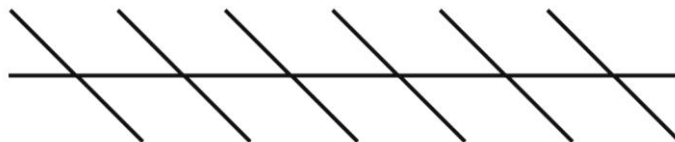
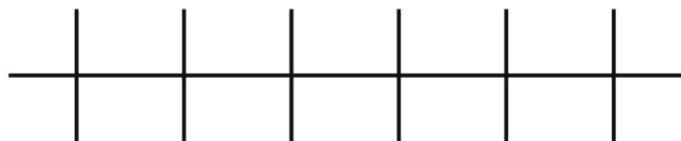
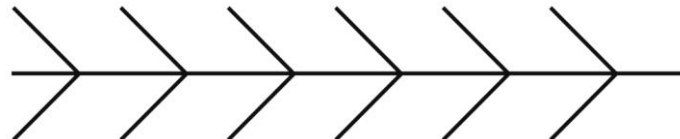
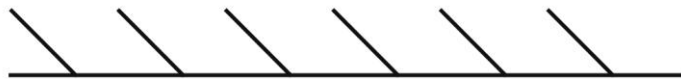
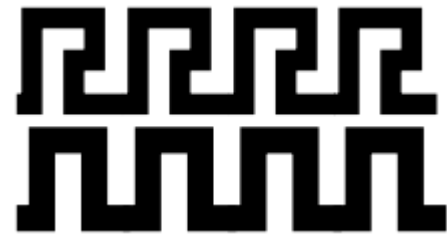






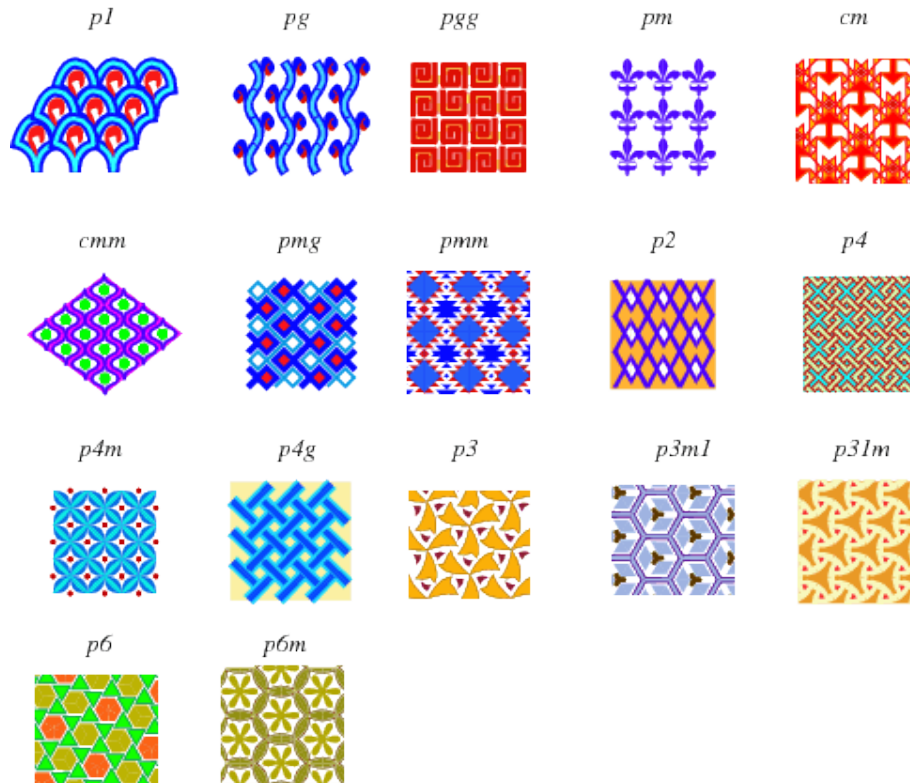


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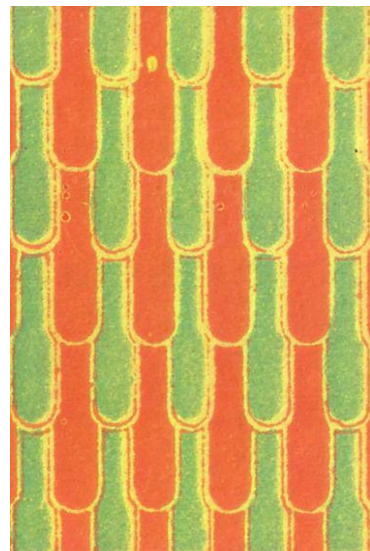
# TAPETY



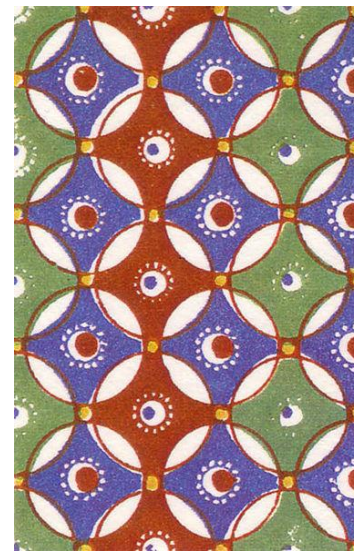




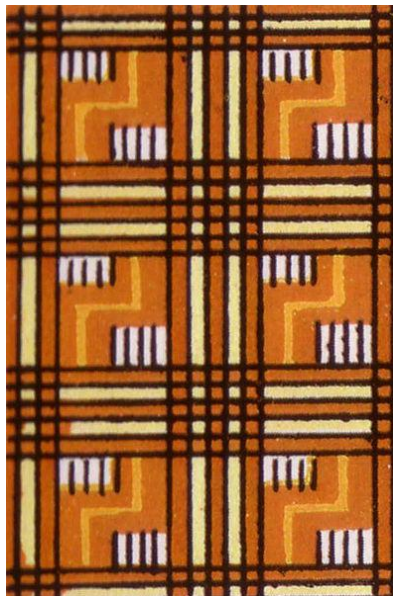
przesunięcia



symetrie pionowe



symetrie pionowe i poziome



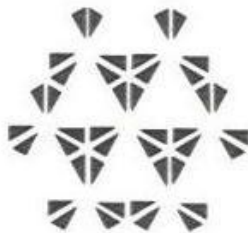
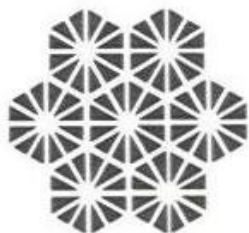
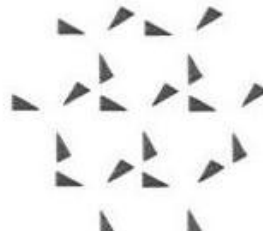
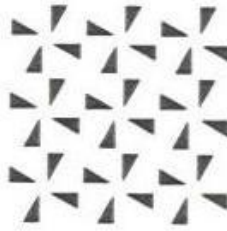
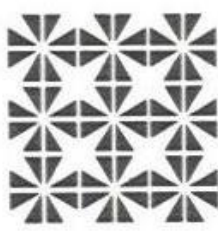
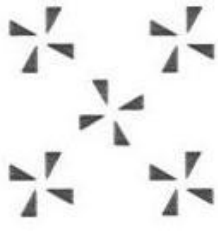
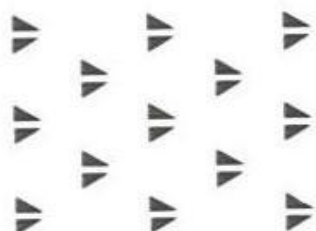
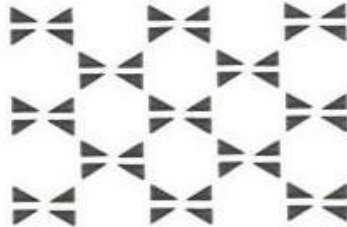
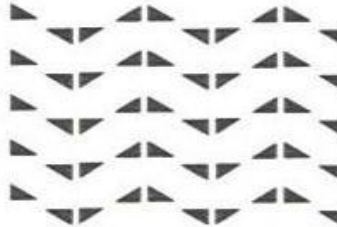
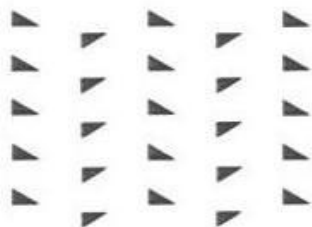
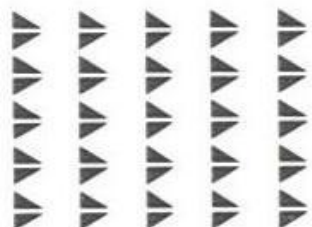
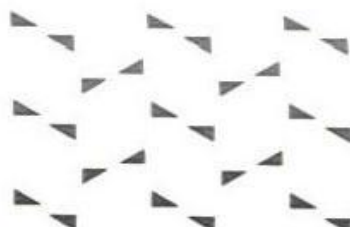
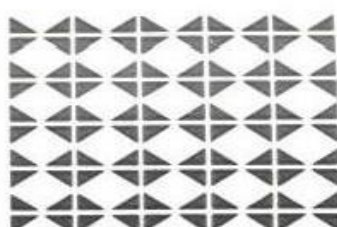
obroty o 180°



obroty o 90° i 180°



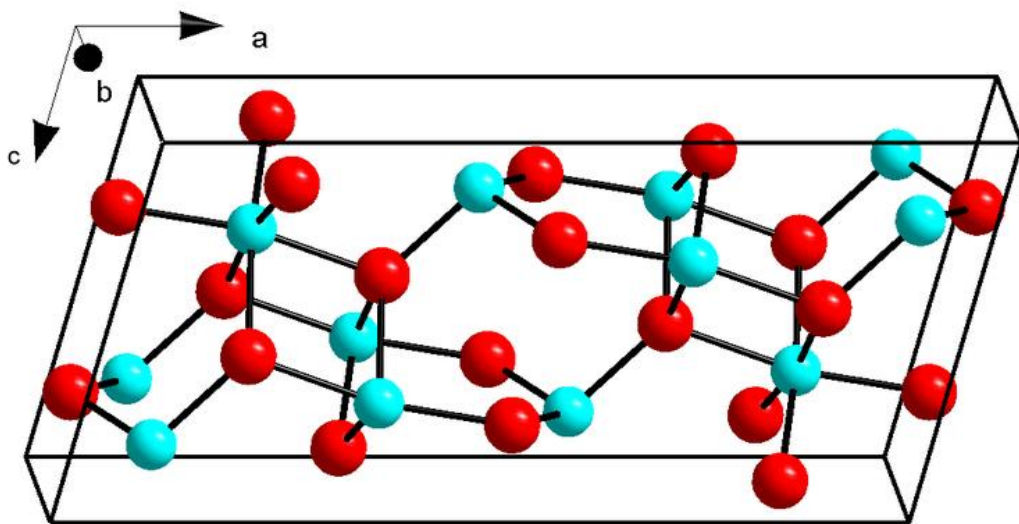
obroty o 90°, symetrie pionowe, poziome i ukośne



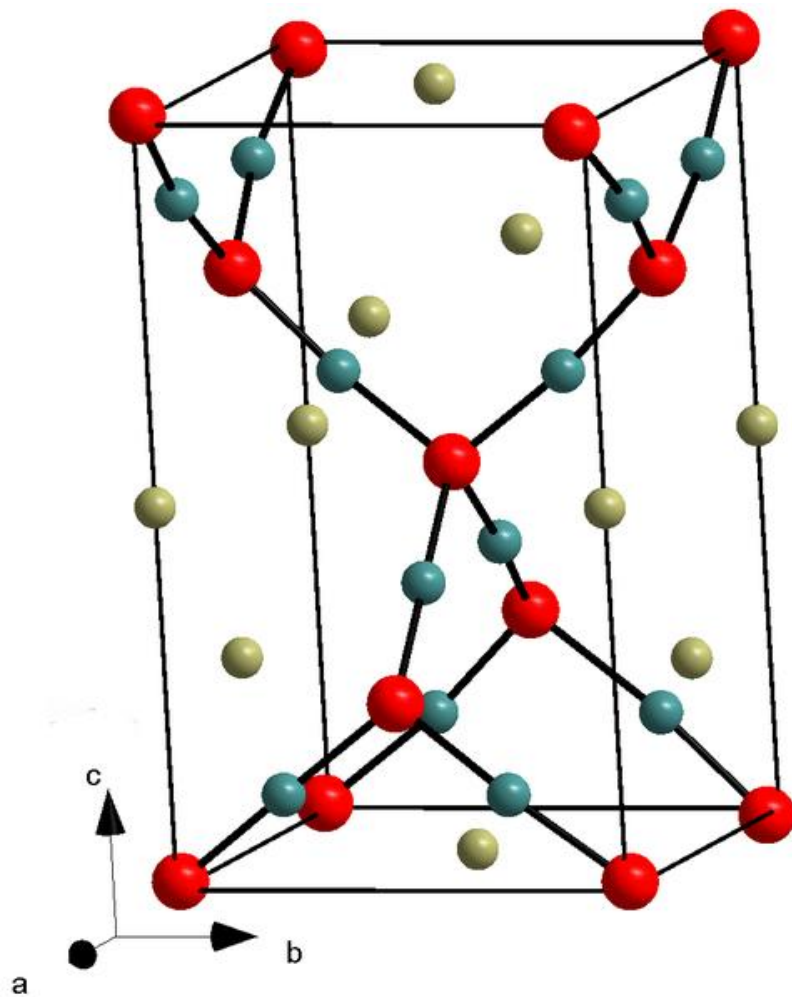
NA PROSTEJ



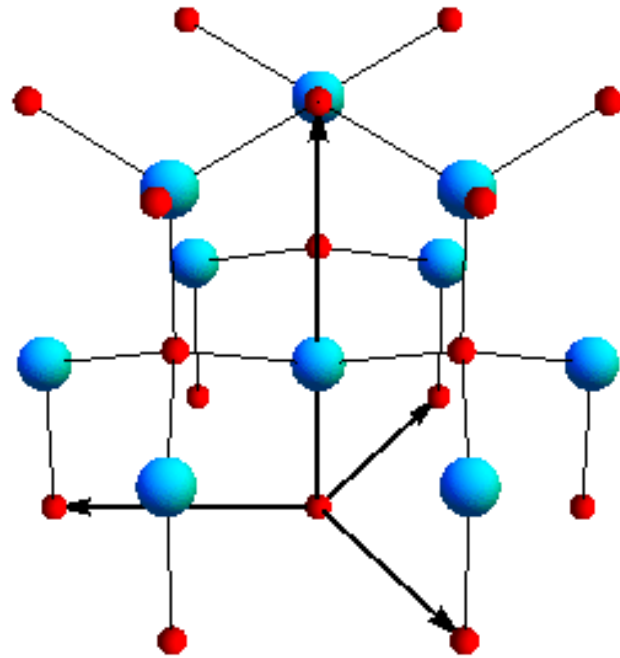
# W PRZESTRZENI



tlenek galu

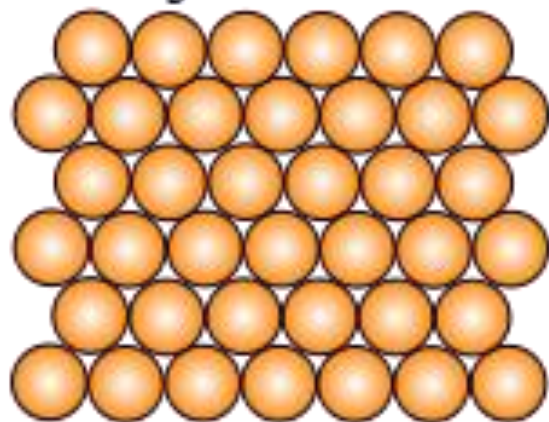


tlenek manganu

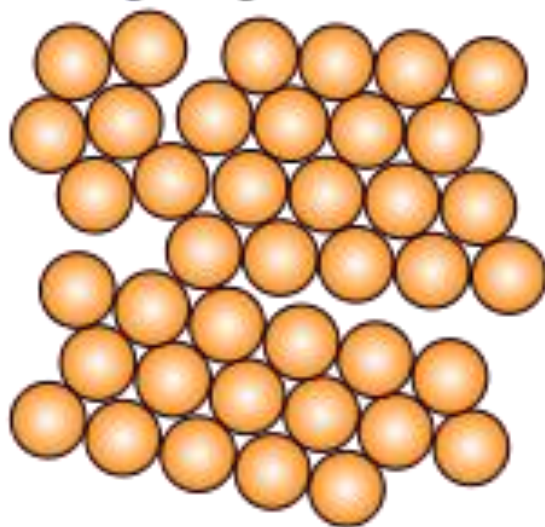


kryształ wurcytu

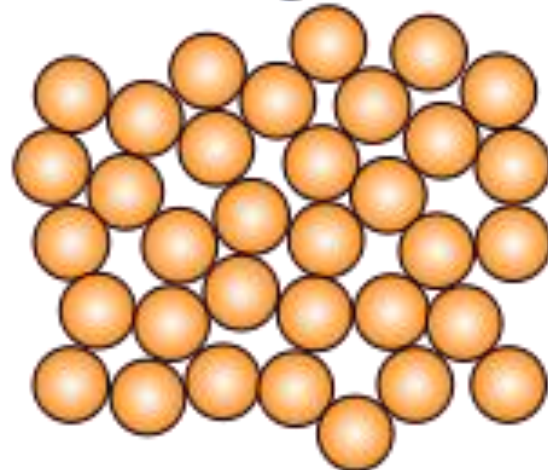
Crystalline

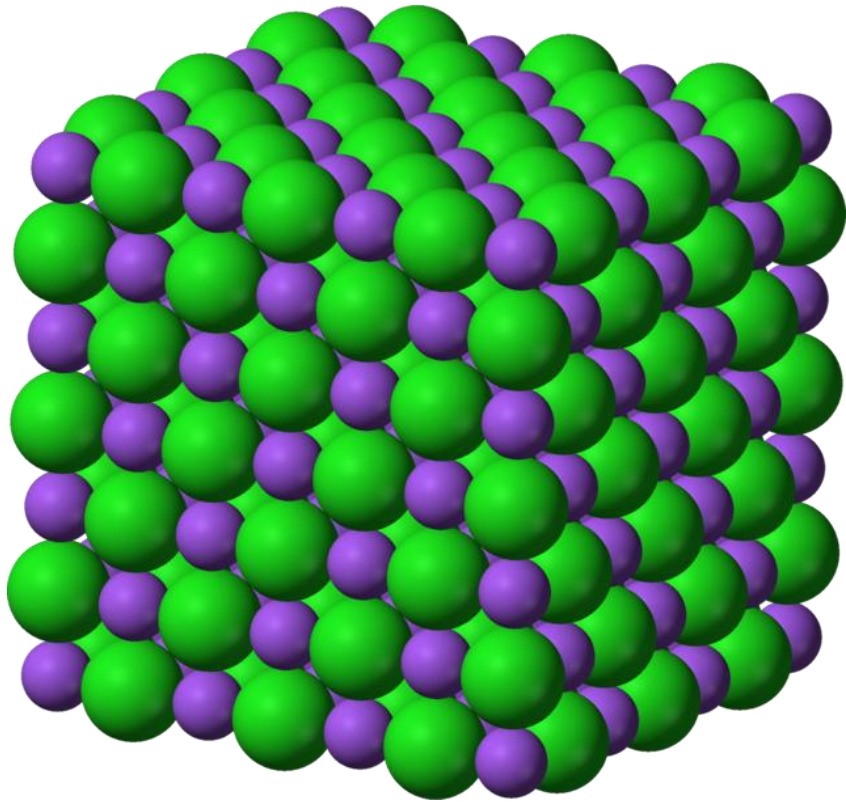


Polycrystalline



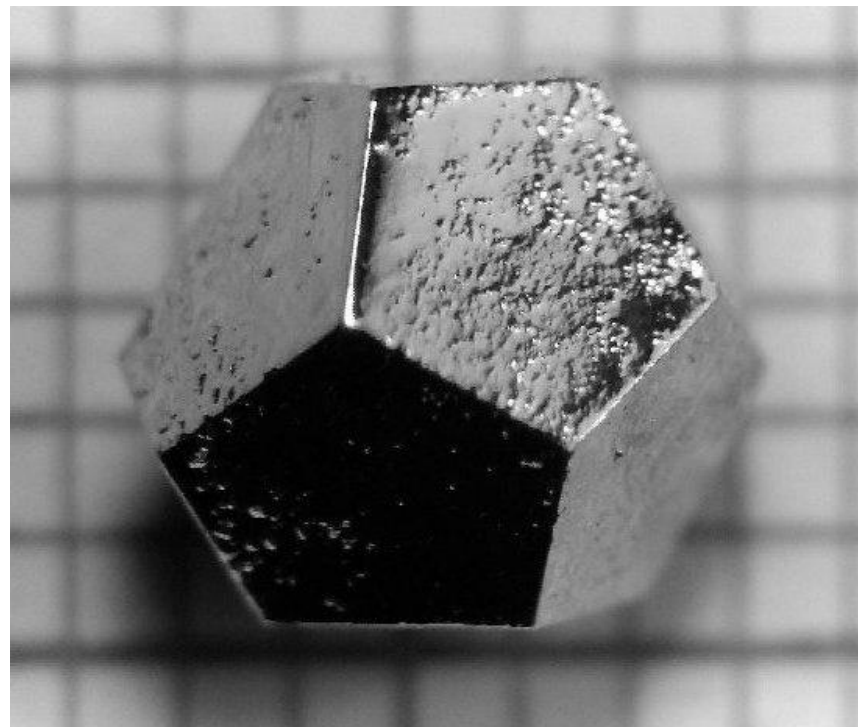
Amorphous







piryt



holm-magnez -cynk





gal