

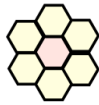


Write $1.0\dot{3}\dot{5}$ as a fraction

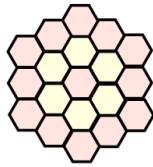
Prove the sum of two consecutive odd numbers is even.



Pattern 1

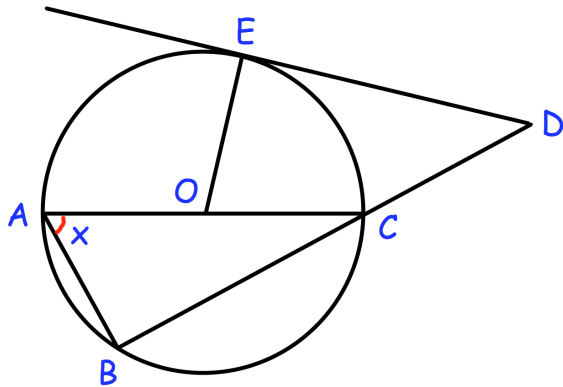


Pattern 2



Pattern 3

How many tiles are needed to make Pattern number 10?



AC is the diameter of a circle, centre O.
 DE is the tangent to the circle.
 BCD is a straight line.
 $AO = CD$
 Angle $BAC = x$

Express angle COD in terms of x.