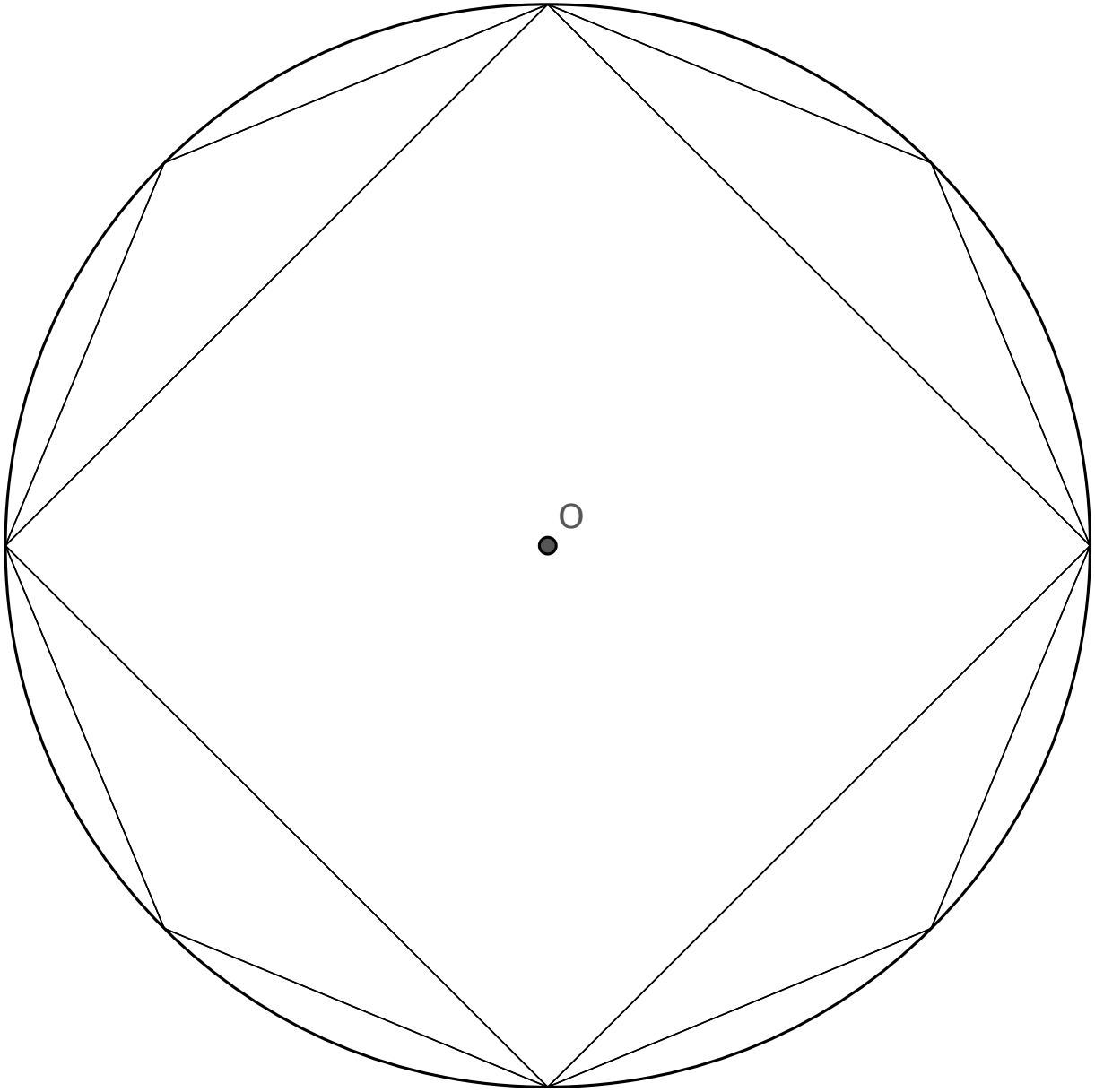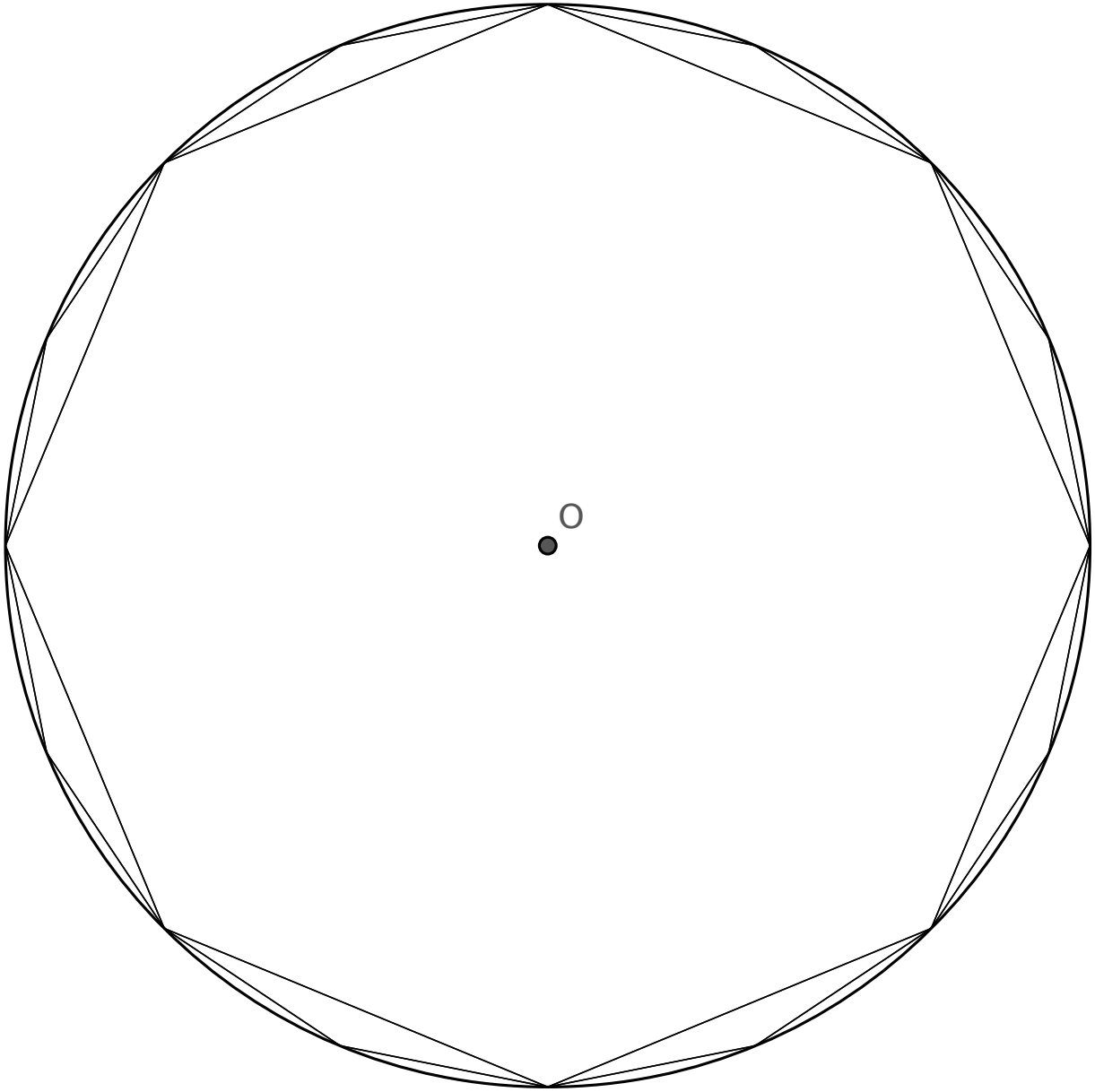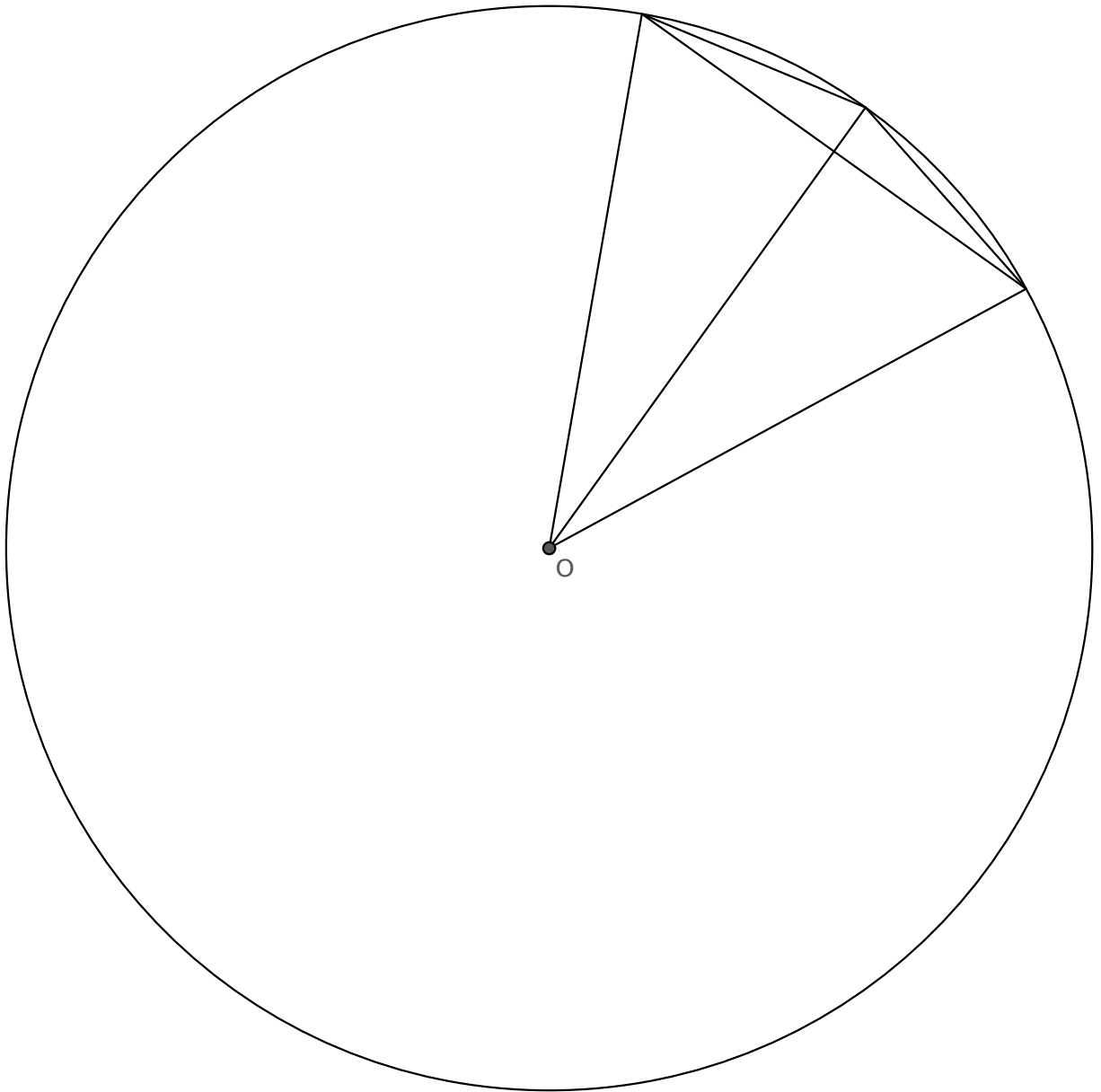Can you find the side length of the square? Can you find the half-perimeter of the square?

Can you find the side-length of the octagon? Can you find the half-perimeter of the octagon?

Can you find the side-length of the decahexagon? Can you find the half-perimeter of the decahexagon?

Can you find a general formula for the side-length of the 2^(n+1)-gon given the side-length of the 2^n-gon?