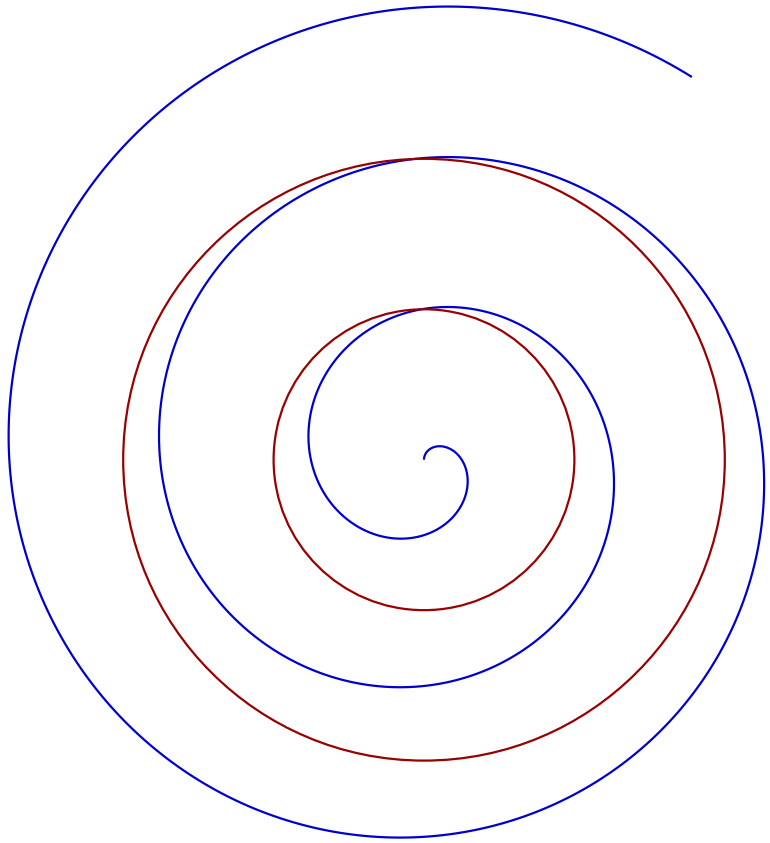
Proof for the nth turn

of the spiral is similar

to the proofs for the

first and second turns.

$OB_n = nc_n$