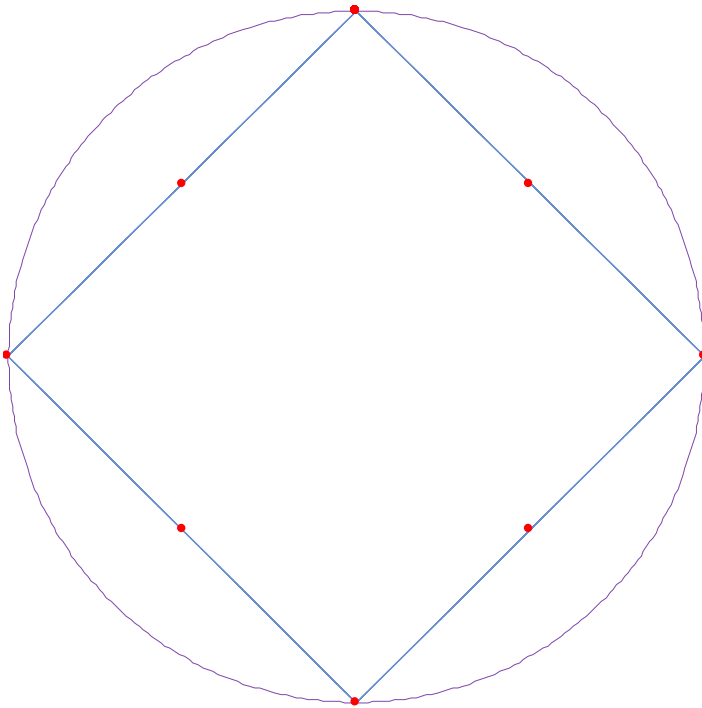


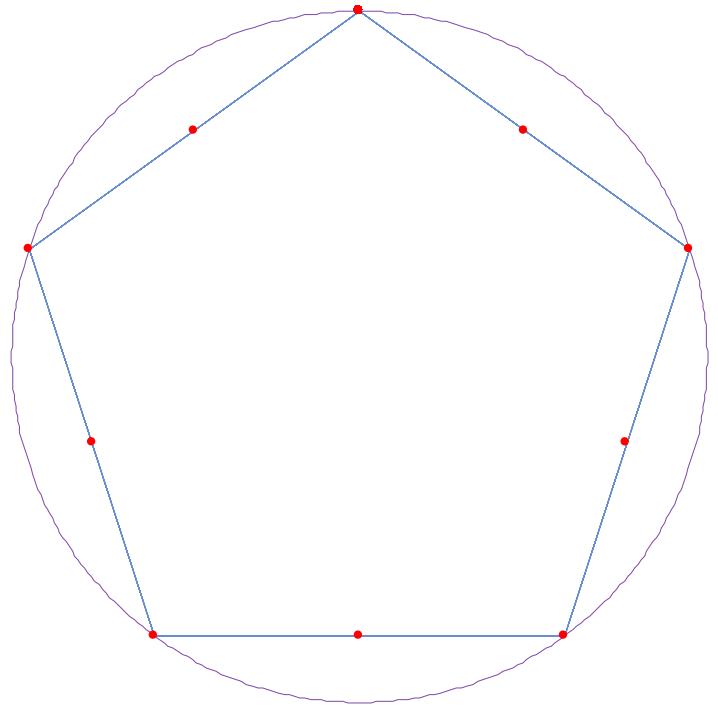
Pencil and Ruler Exercise: **Changing n (number of vertices in polygon)**
 with fixed S (*subdivisions* (equally spaced segments) between vertices), P (*subdivisions*
 between points) and J (*polygonal vertex jumps*)

FACT: All four subdivision dot-plots have the same number of S , $S = \underline{\hspace{1cm}}$, and the same number for J , $J = \underline{\hspace{1cm}}$.

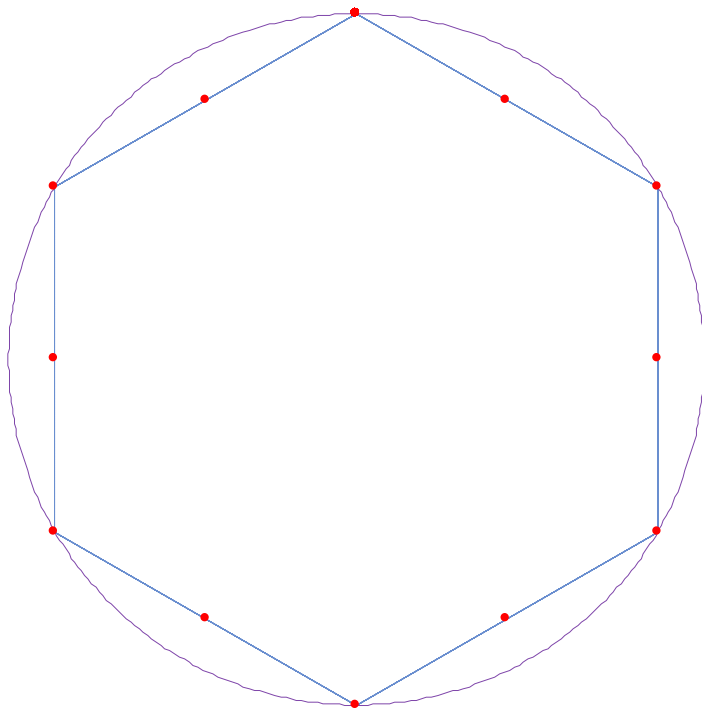
Drawing Instructions: Start at the top of each circle and *draw each image from point to point* with pencil and ruler assuming **three** subdivisions between points, $P = 3$.



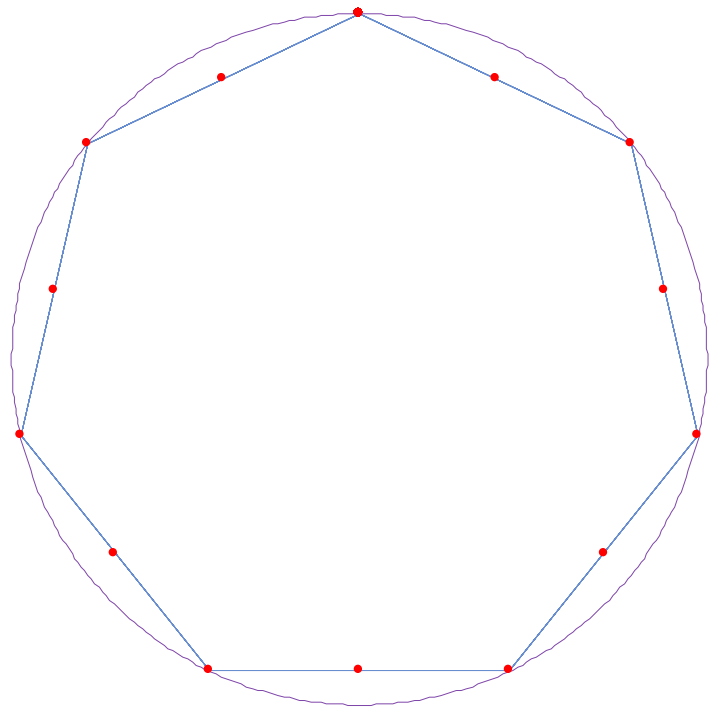
$n = \underline{\hspace{1cm}}$. Does the image use all subdivision dots?



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If an image did not use all subdivision dots, what fraction are used ($1/2$, $1/3$, $1/4$, etc.)? (SCF is the bottom of this fraction)