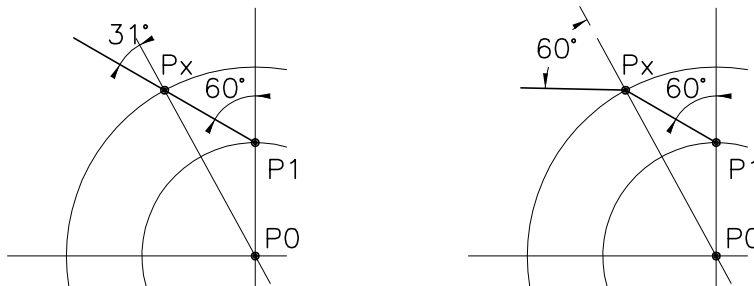


Polygonal spirals with manageable inclination. (1/2)

How my graphic method was born.

Having a segment and a point  $P_0$  external and not in line with it, I notice that the inclination of the segment with respect to  $P_0$  is different for each point of the segment. By inclination I mean the angle that the segment forms with a straight line passing from the point  $P_0$  and from a point  $P_1$  or  $P_x$  of the segment. To keep the same inclination in  $P_x$ , the segment must be interrupted in  $P_x$  and restarted with a new desired inclination segment. Repeating the operation at various distances from  $P_0$  for example having as reference the circles with center in  $P_0$ , I realized that a polygonal spiral can be realized. For convenience of execution I have hereinafter defined a graphic method and an algorithm described and illustrated with various examples in ten sheets. By giving the right increment/decrement to the length of the segments a logarithmic spiral can be created starting from the inclination.



Dante Servi Bressana Bottarone (PV) – Italy –  
dante.servi@gmail.com

Polygonal spirals with manageable inclination. (2/2)

Comparison between a spiral of mine with constant segment length and a logarithmic one.

