Papercut Patterns

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The webpages for GNU 3DLDF are here: `http://www.gnu.org/software/3dldf/LDF.html`

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GNU 3DLDF website: `http://www.gnu.org/software/3dldf/LDF.html`

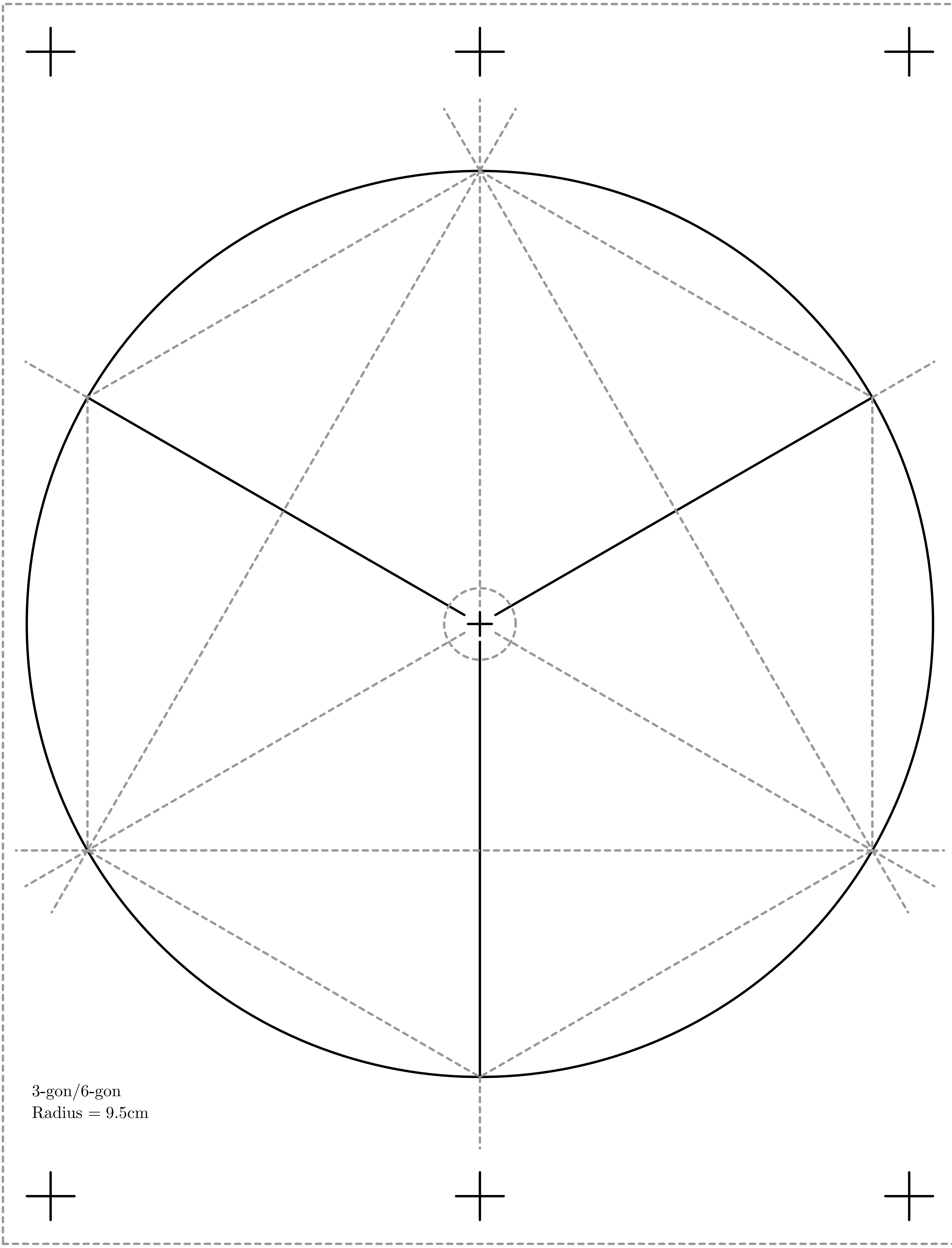
Papercut Patterns

The technical drawings in this document can be used for creating papercut or works of art of a similar nature. They are meant for patterns with multiple lines of symmetry, such as papercuts made by folding and cutting patterns into two or more layers of the paper.

Half of the drawings contain a circle divided into sections by two polygons, p_1 and p_2, where p_2 has twice as many sides as p_1. Put another way, the lines of p_2 divide each triangular section of p_1 into halves.

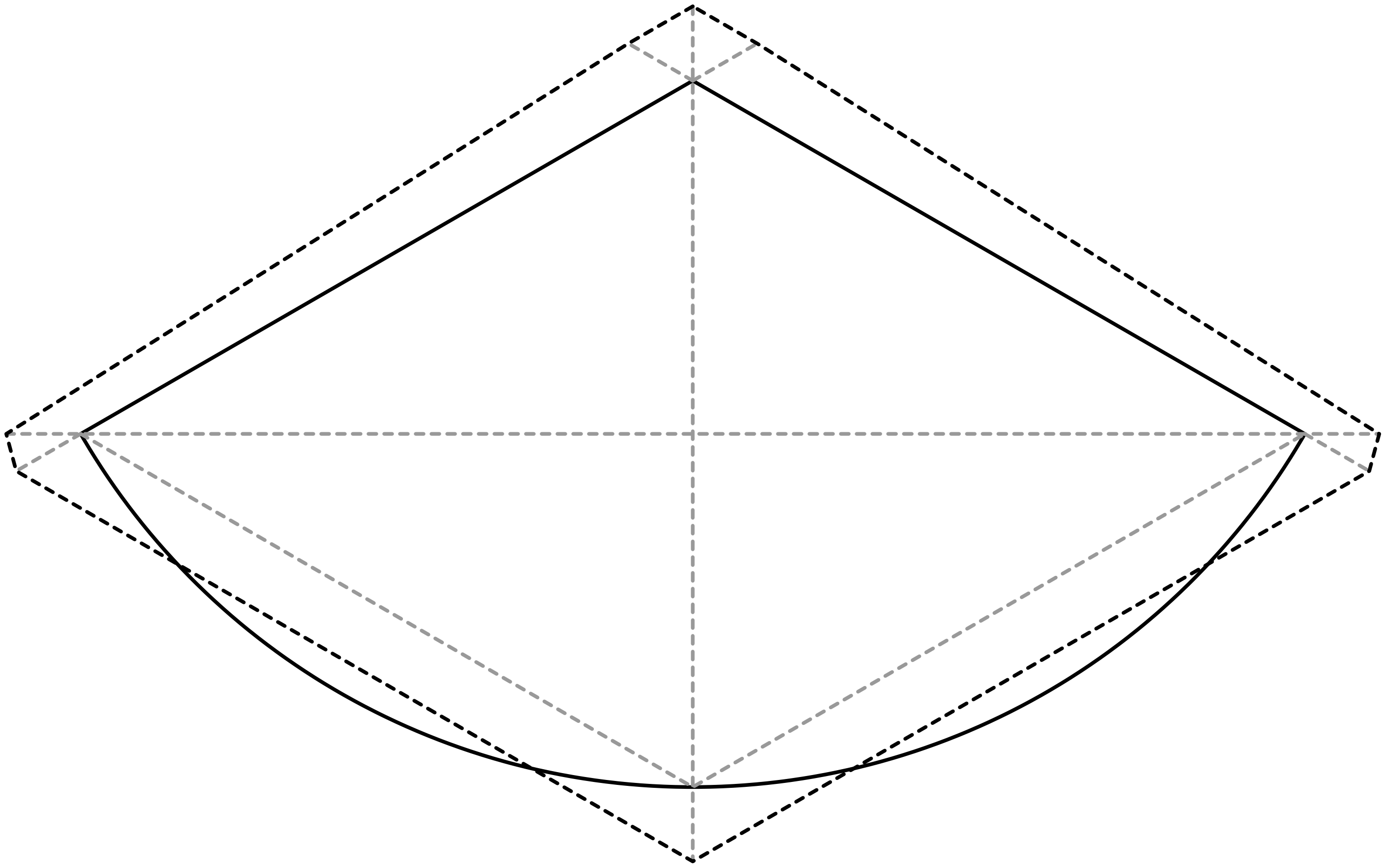
The other half of the drawings contains one or more separate sections from the "polygon-circle" on the previous page. These sections can be used for creating patterns, which can then be transferred to the drawing with the entire "polygon-circle". The dashed grey lines can be used for aligning them with the corresponding lines on the drawing of the polygon-circle.

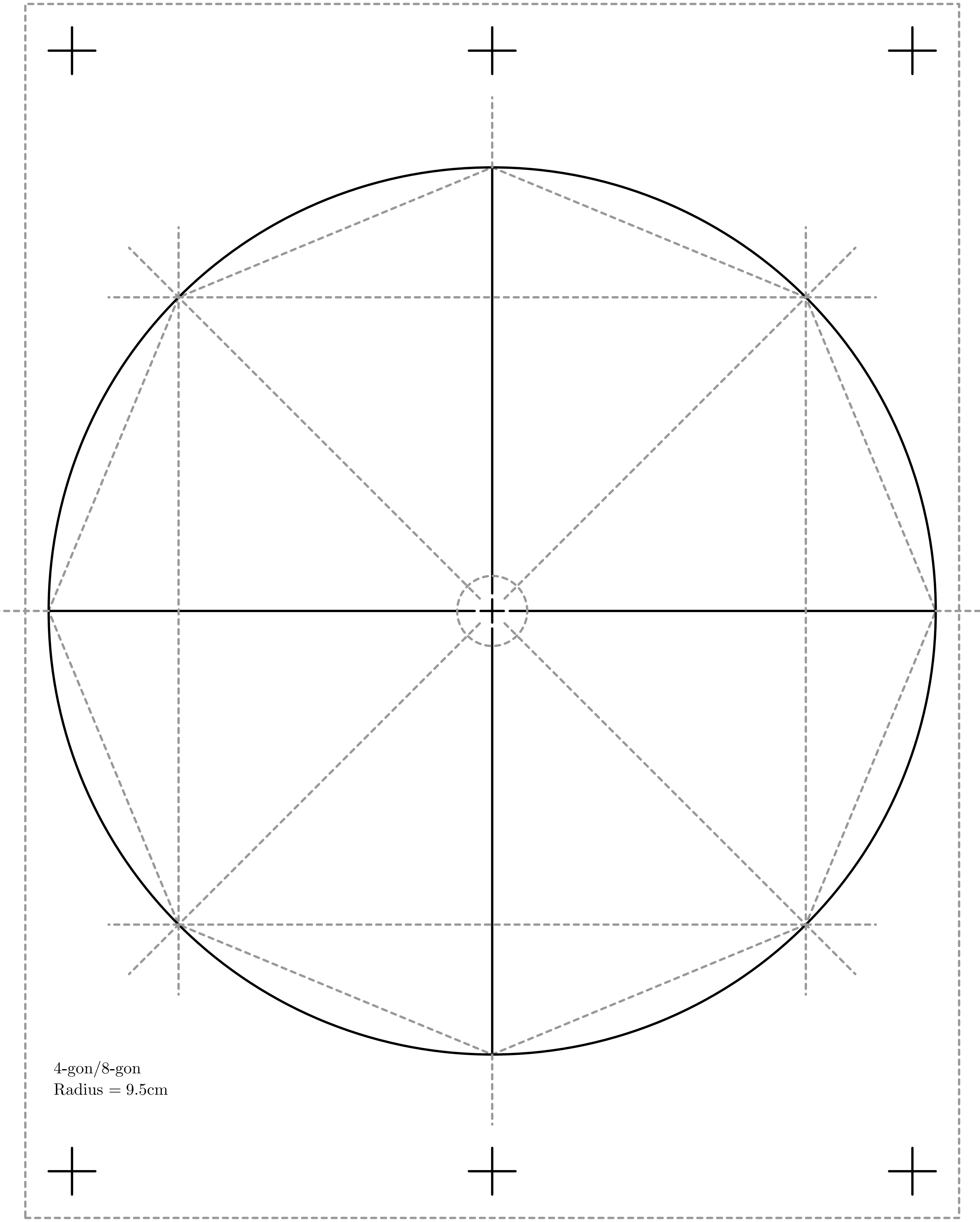
More than one section can fit on a single page, but it requires some fiddling to get this right. As of this date (January 5, 2011), the author has only done this for the 5-gon/10-gon, 7-gon/14-gon and 9-gon/18-gon sections.



3-gon/6-gon
Radius = 9.5cm

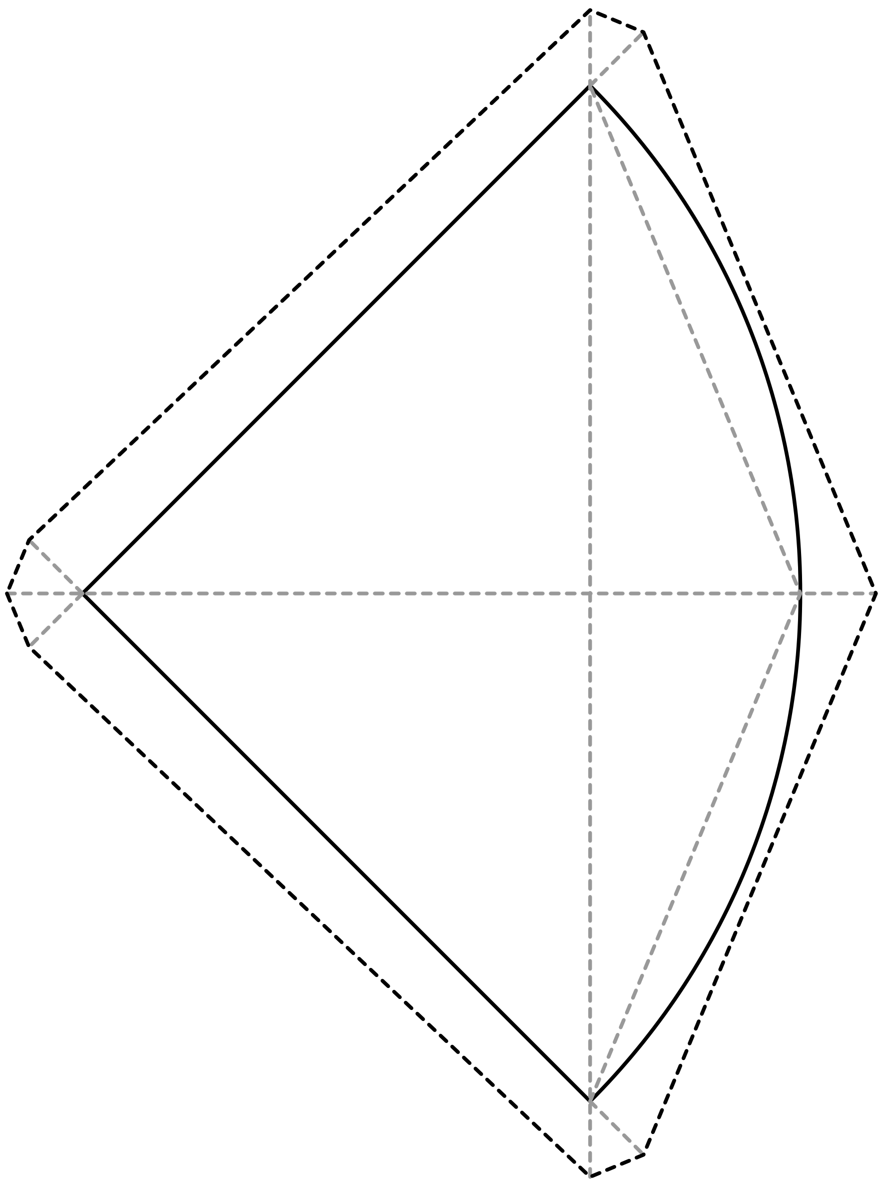
Section 3-gon/6-gon

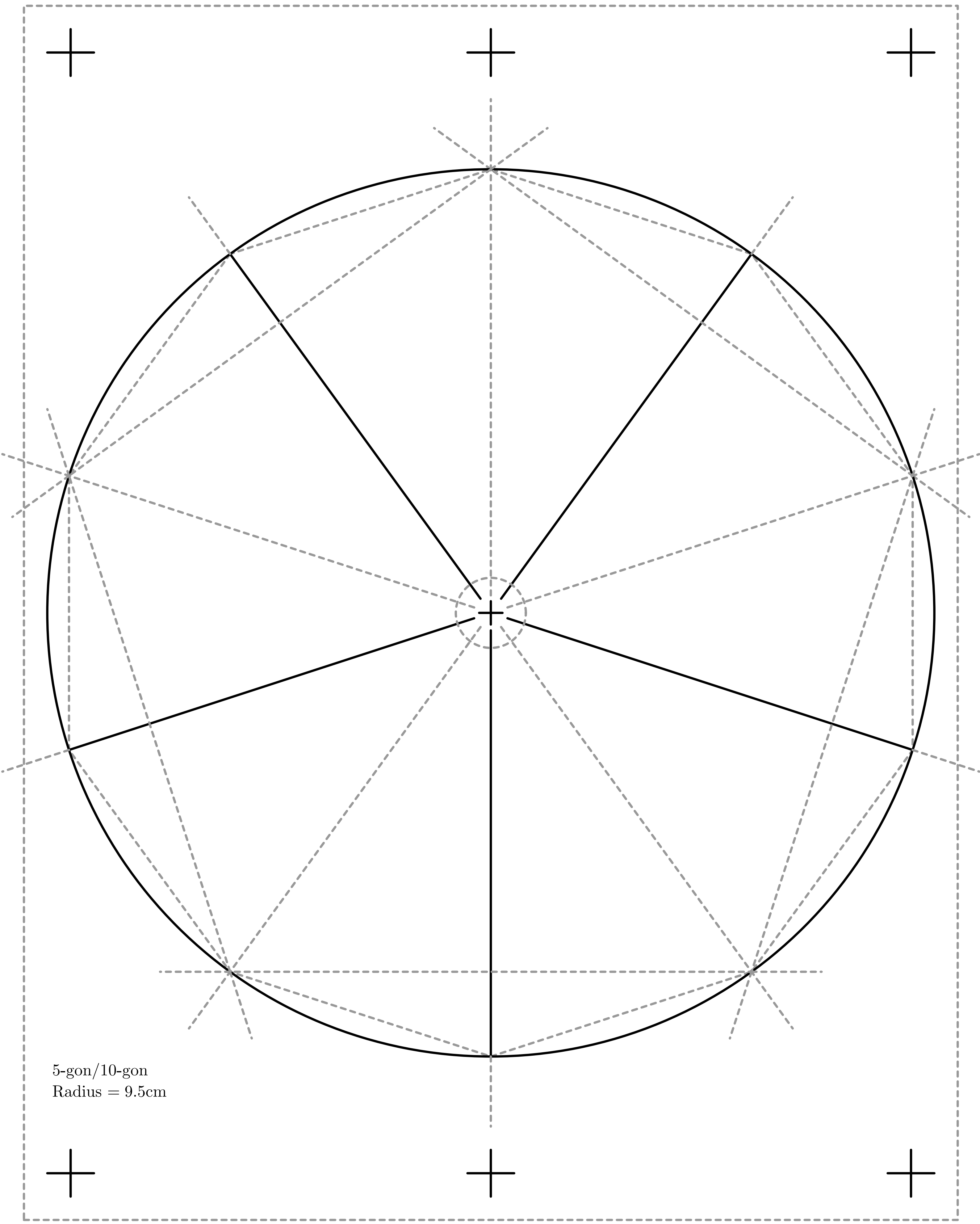




4-gon/8-gon
Radius = 9.5cm

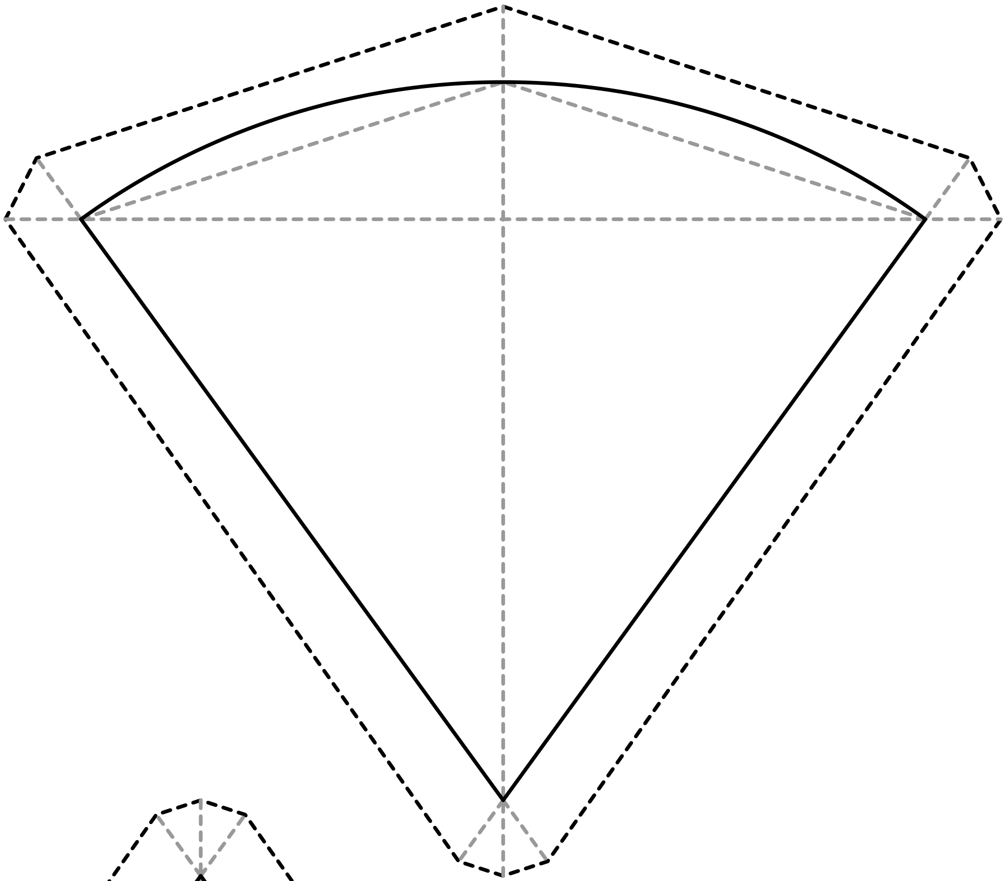
Section 4-gon/8-gon

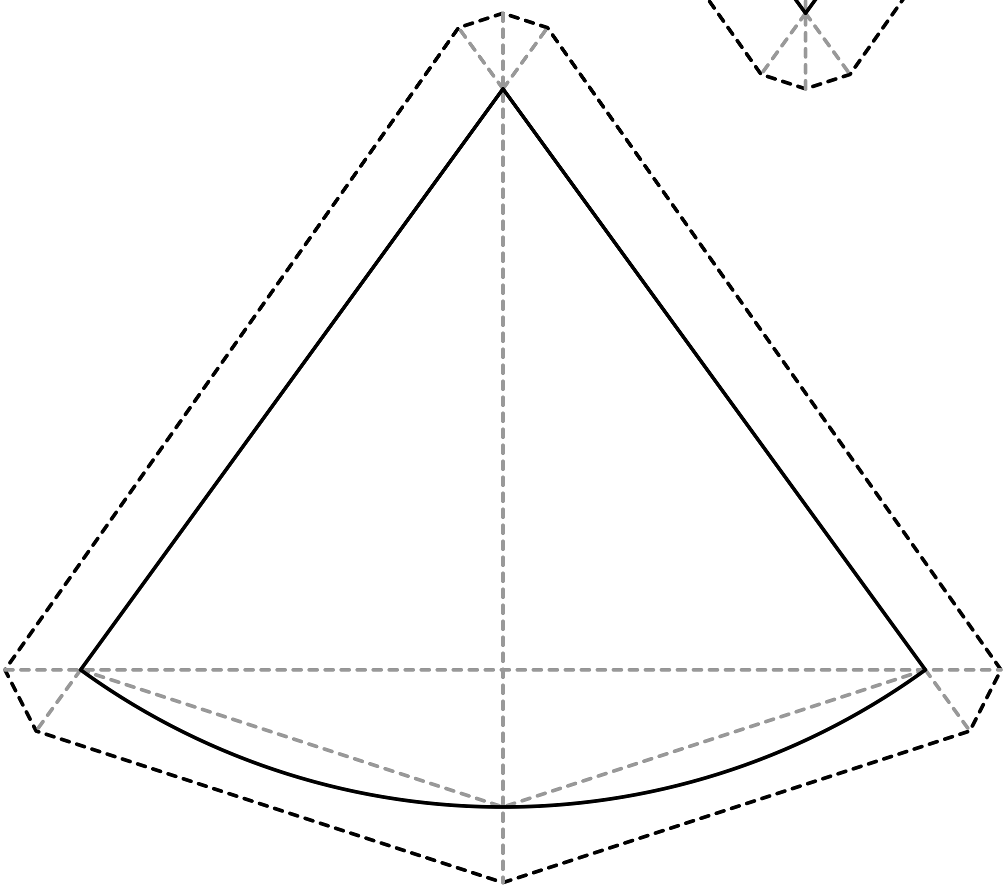


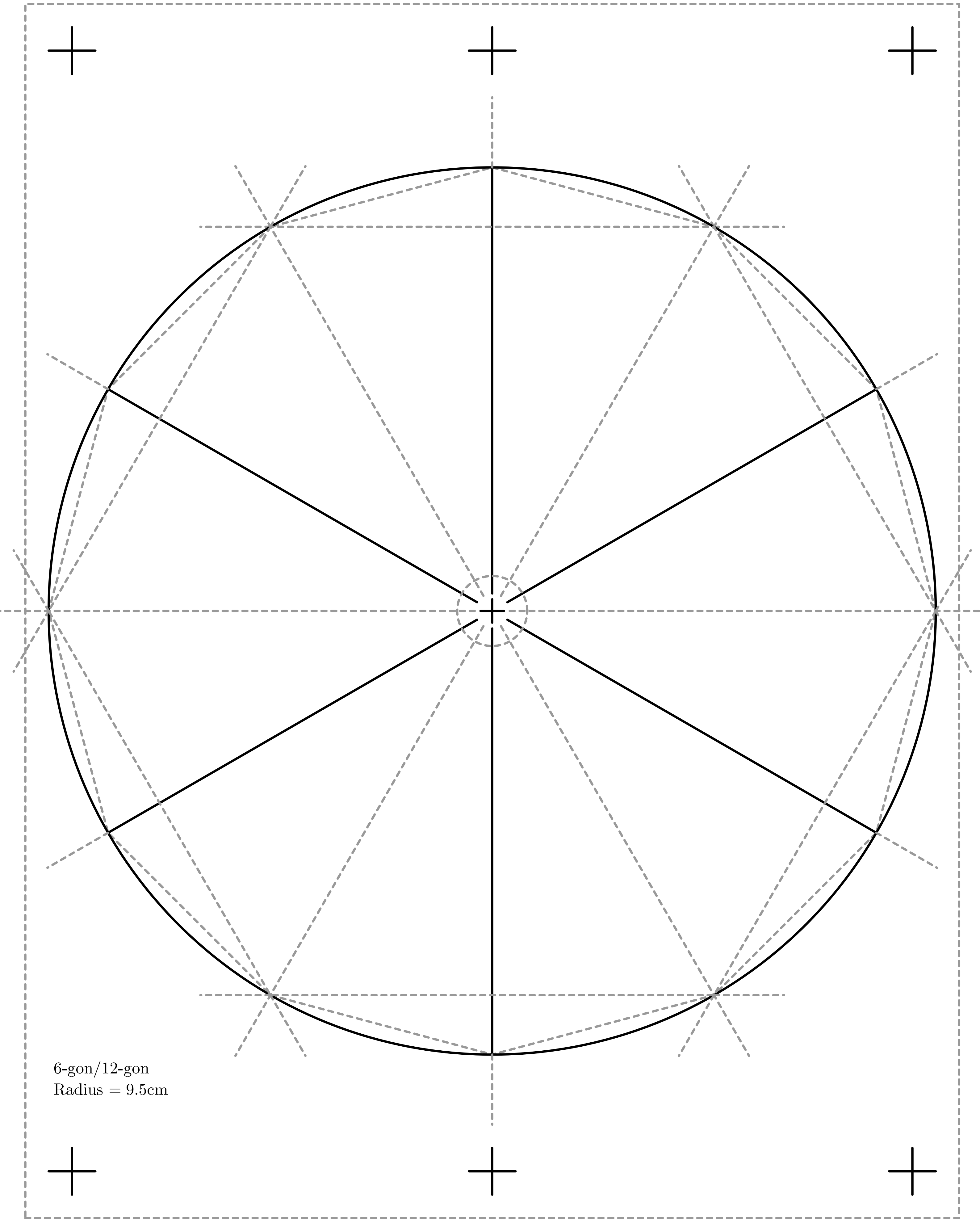


5-gon/10-gon
Radius = 9.5cm

Section 5-gon/10-gon

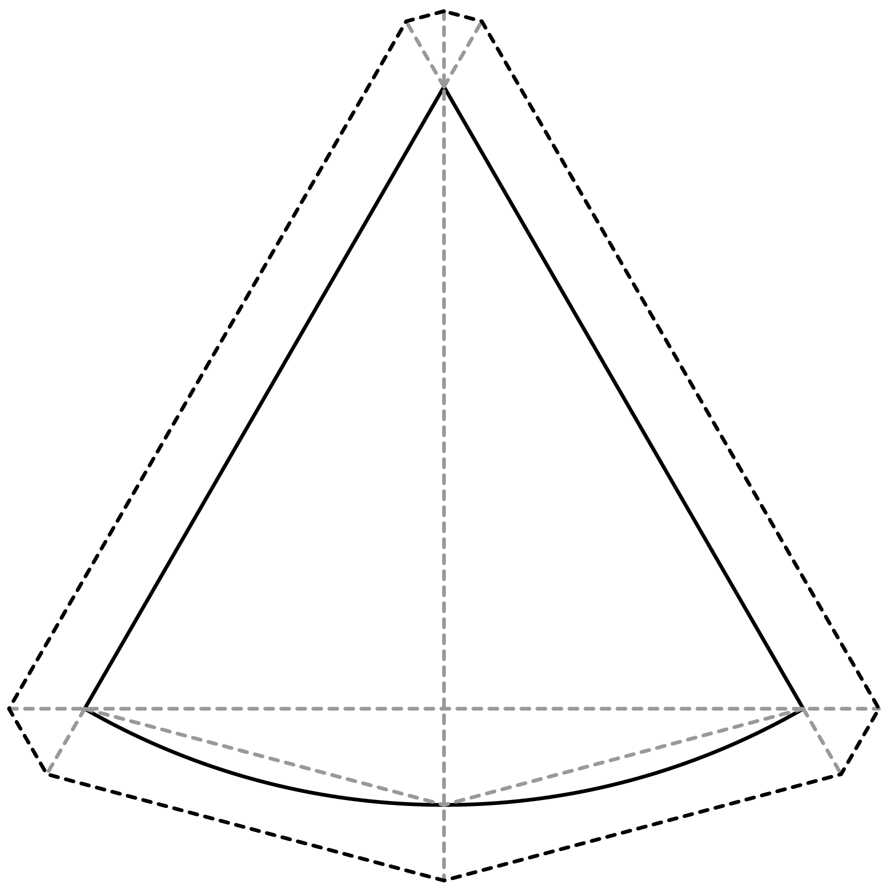


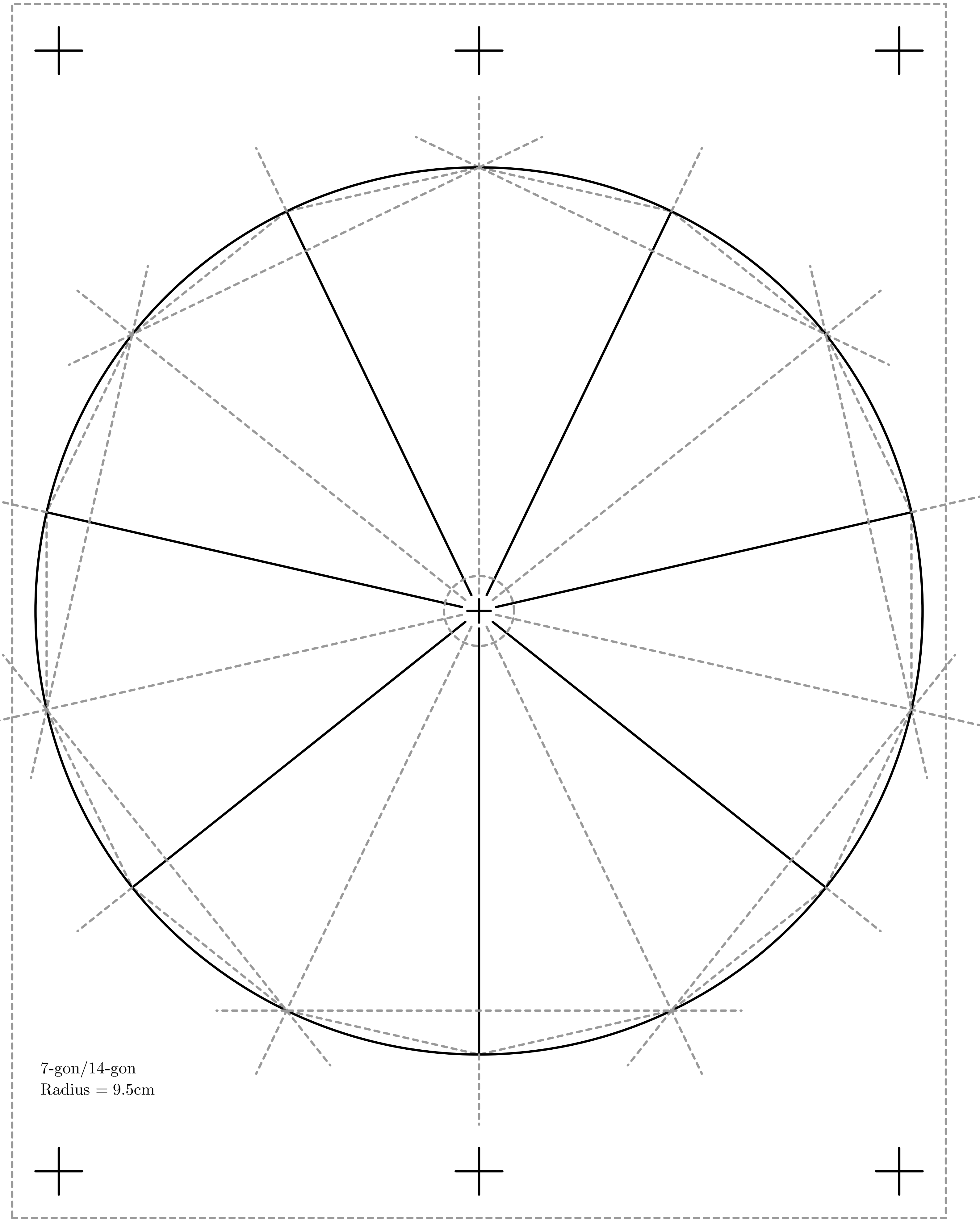




6-gon/12-gon
Radius = 9.5cm

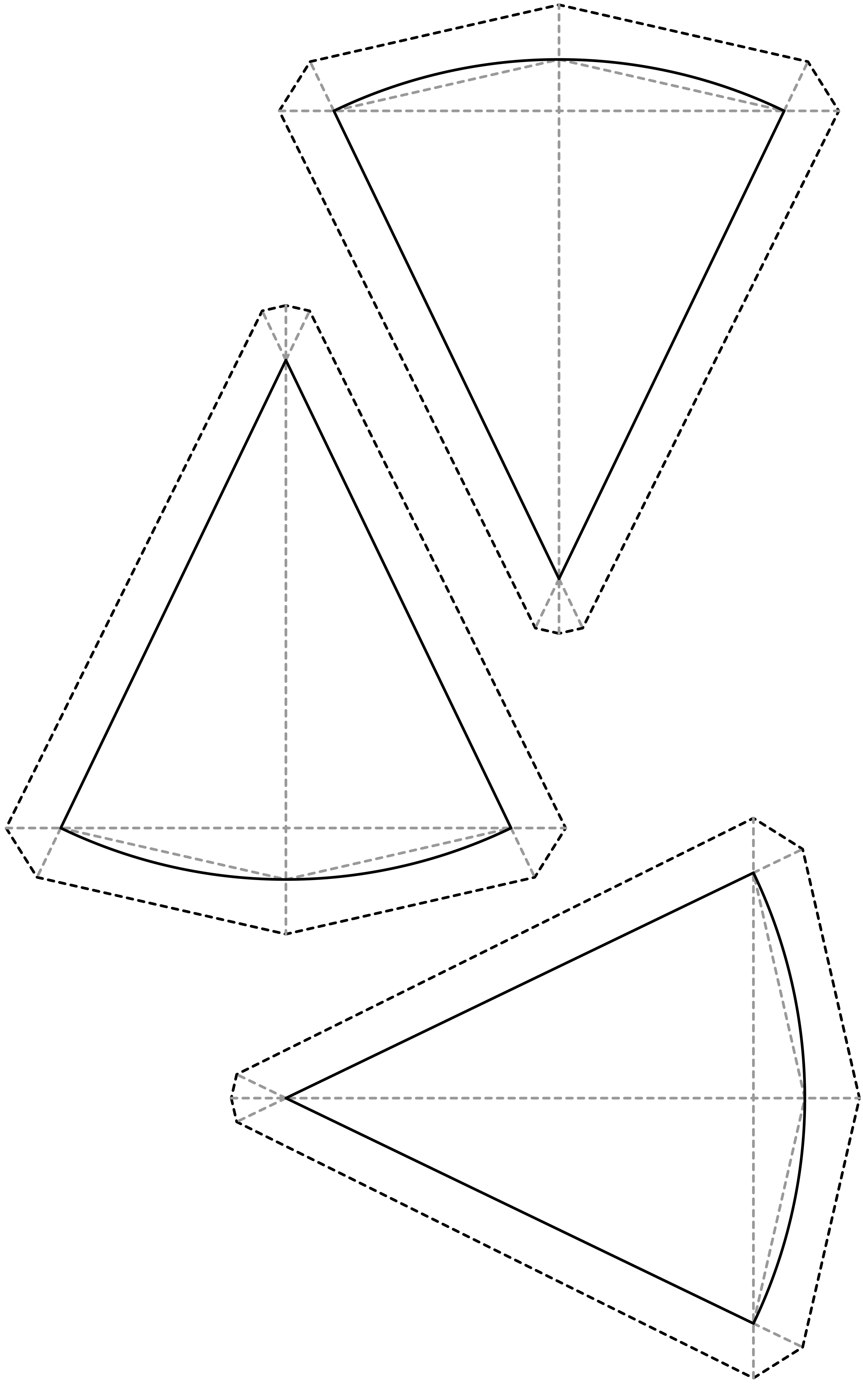
Section 6-gon/12-gon

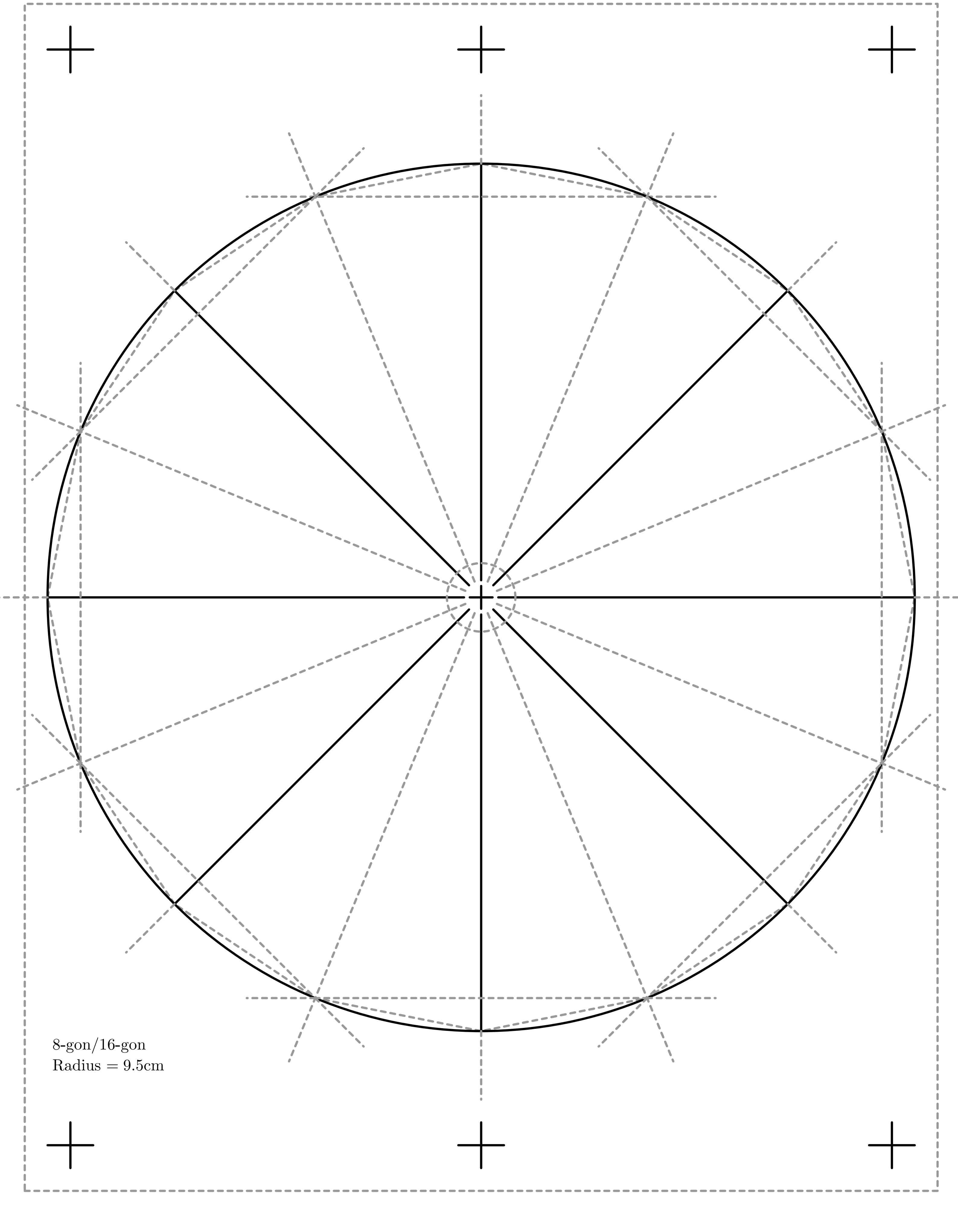




7-gon/14-gon
Radius = 9.5cm

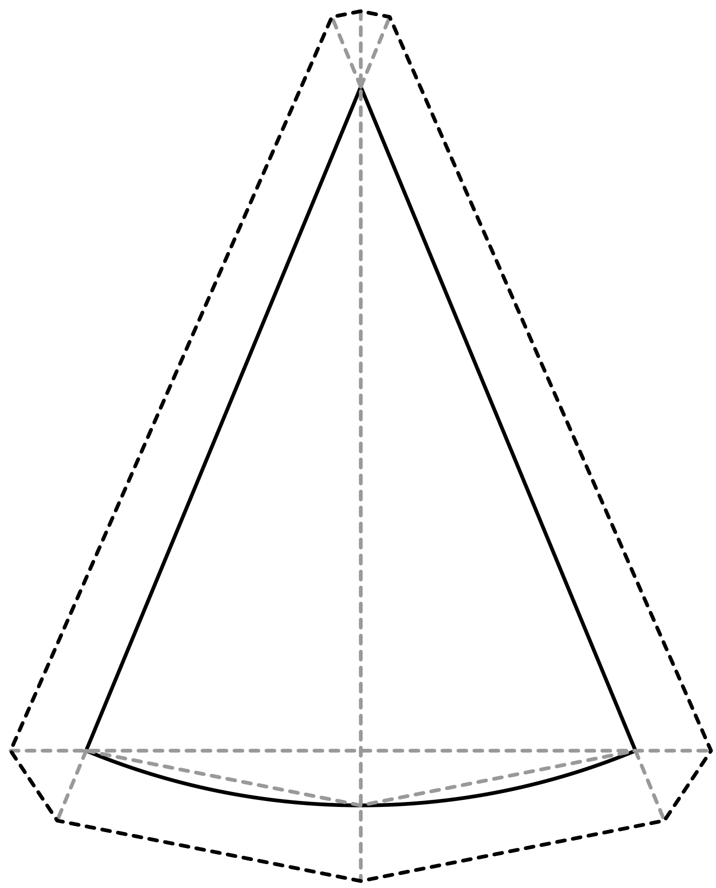
Section 7-gon/14-gon

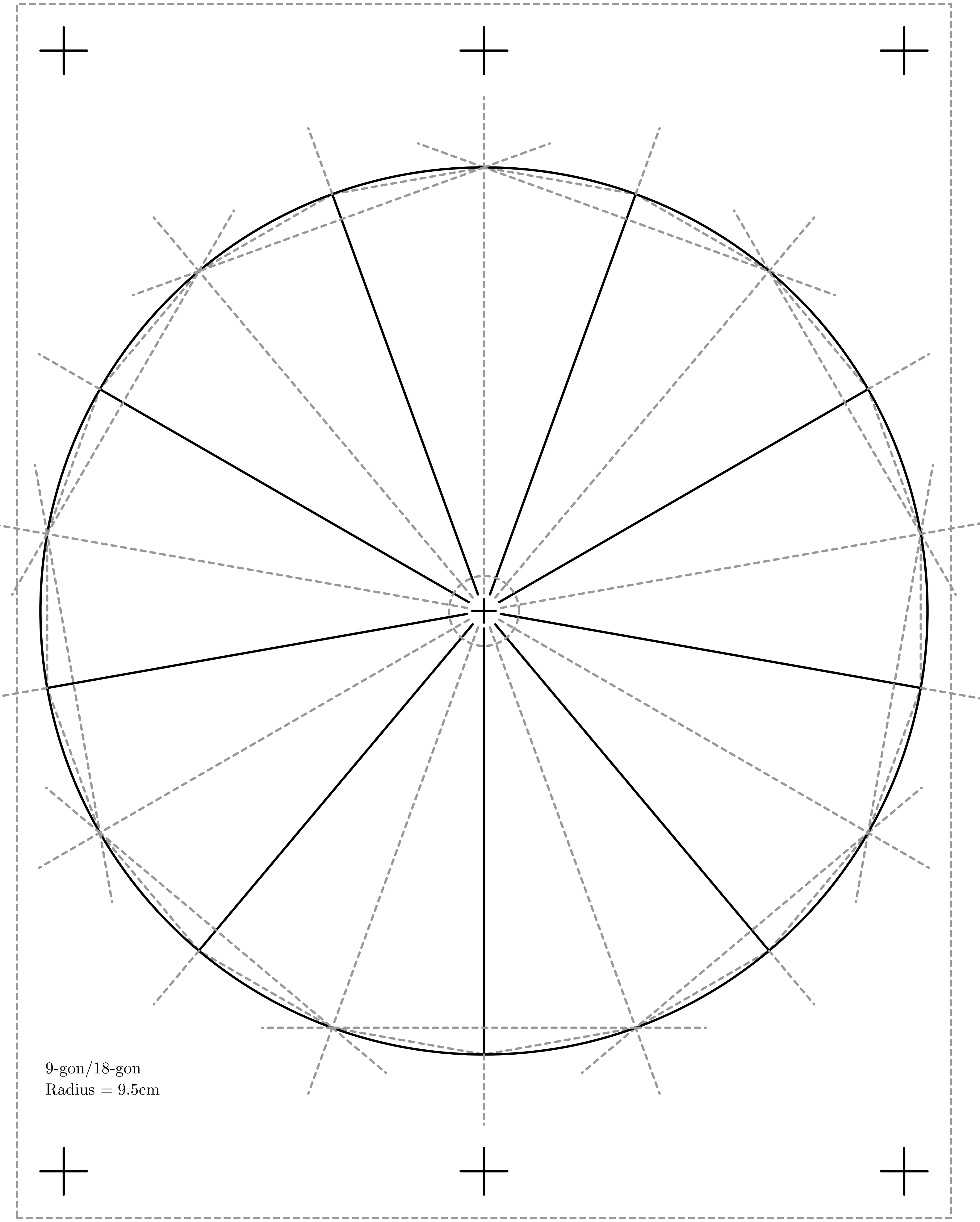




8-gon/16-gon
Radius = 9.5cm

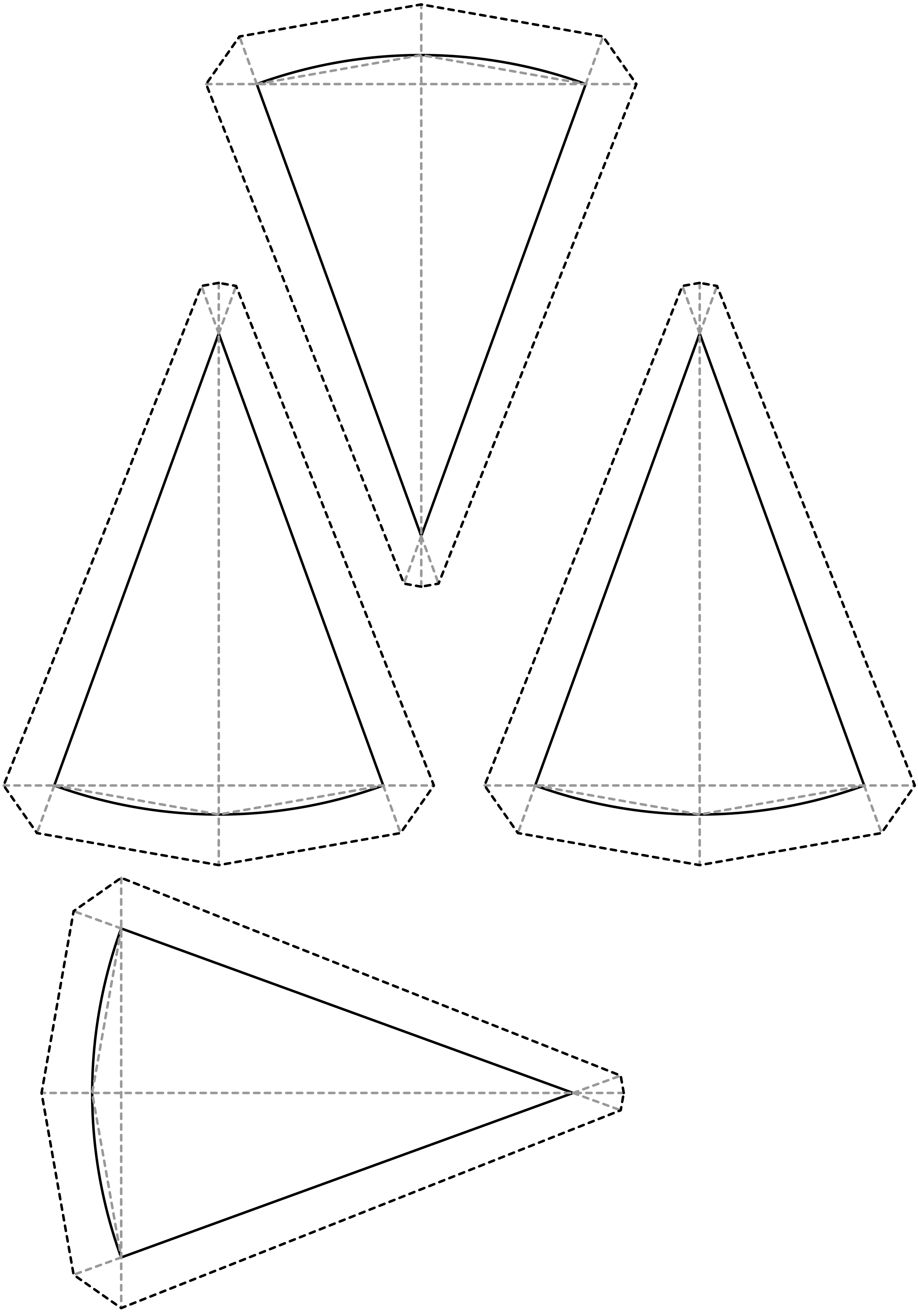
Section 8-gon/16-gon

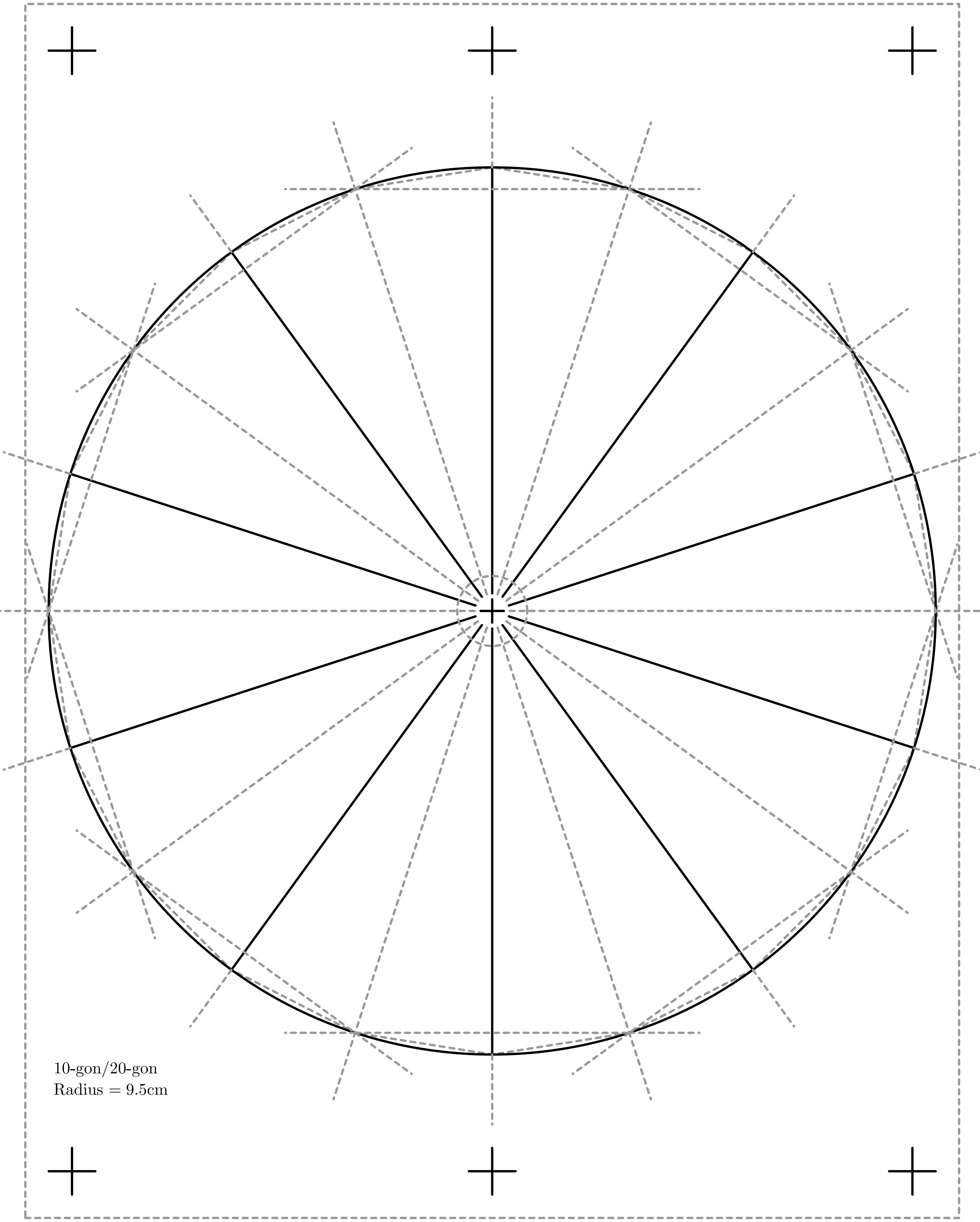




9-gon/18-gon
Radius = 9.5cm

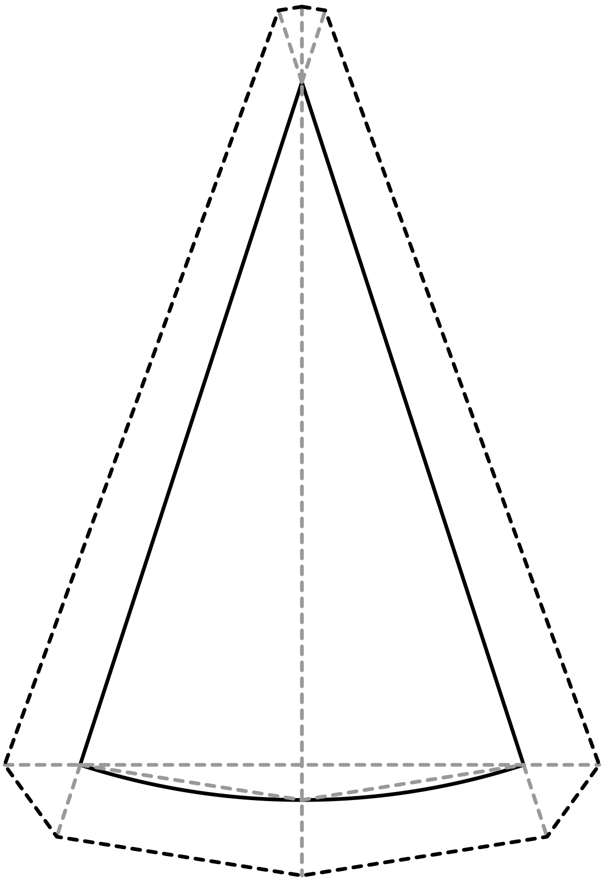
Section 9-gon/18-gon

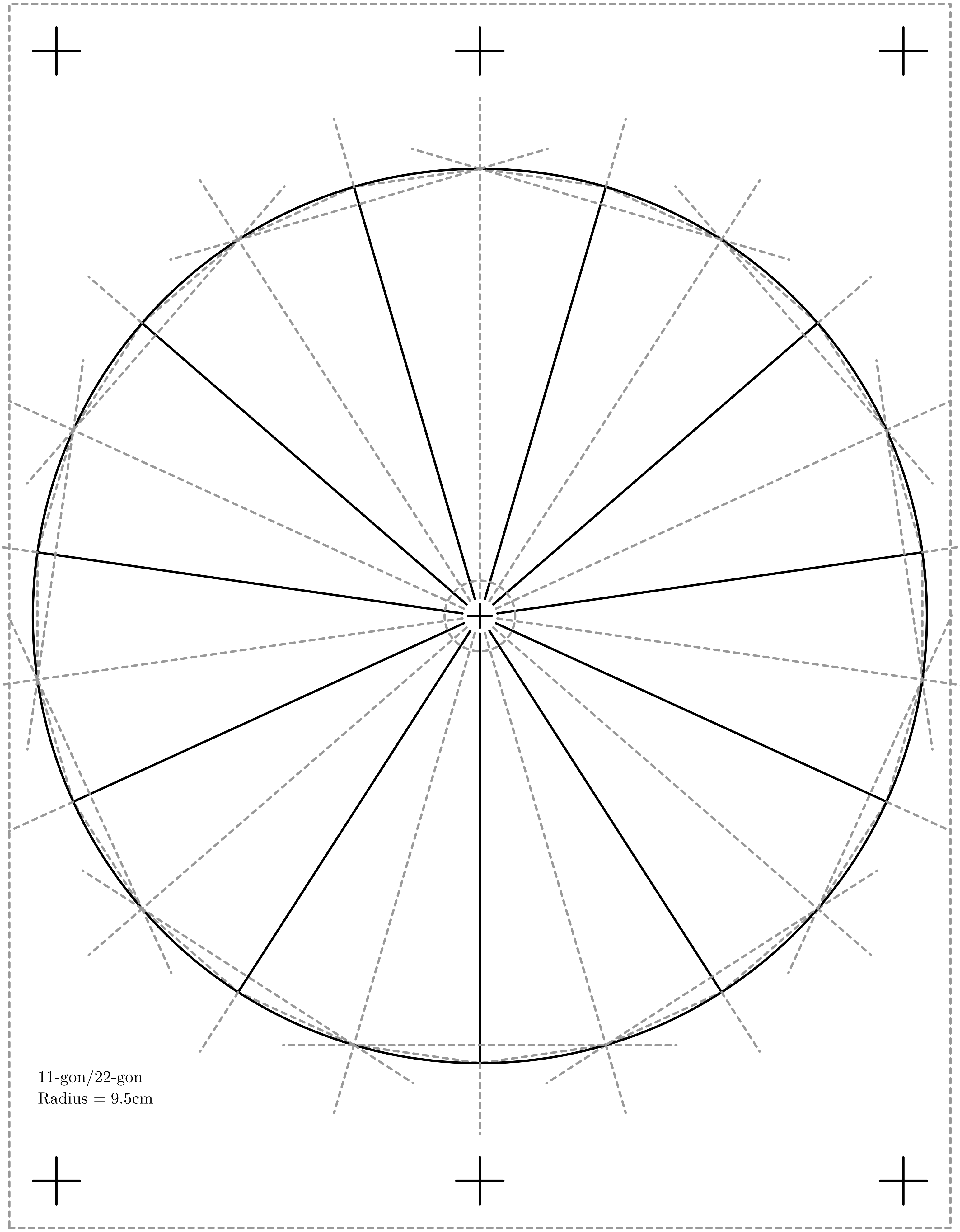




10-gon/20-gon
Radius = 9.5cm

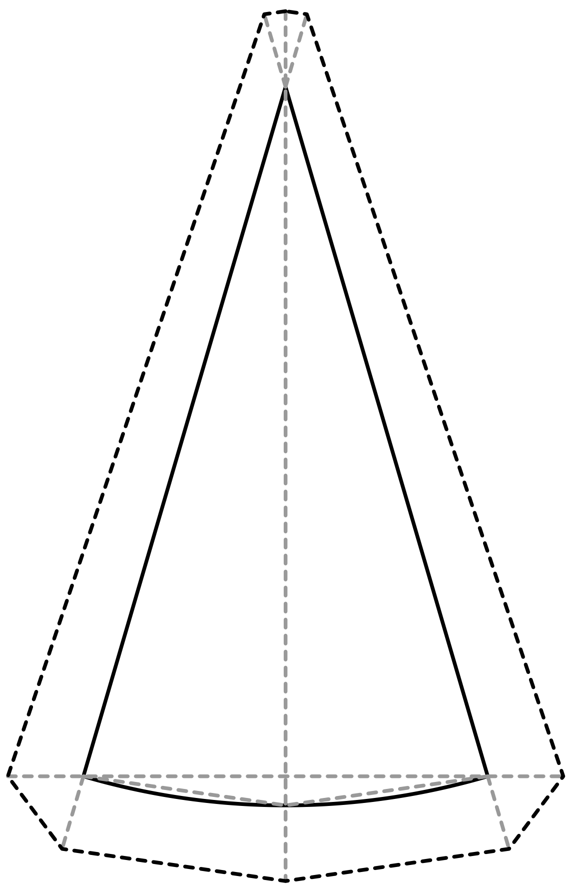
Section 10-gon/20-gon

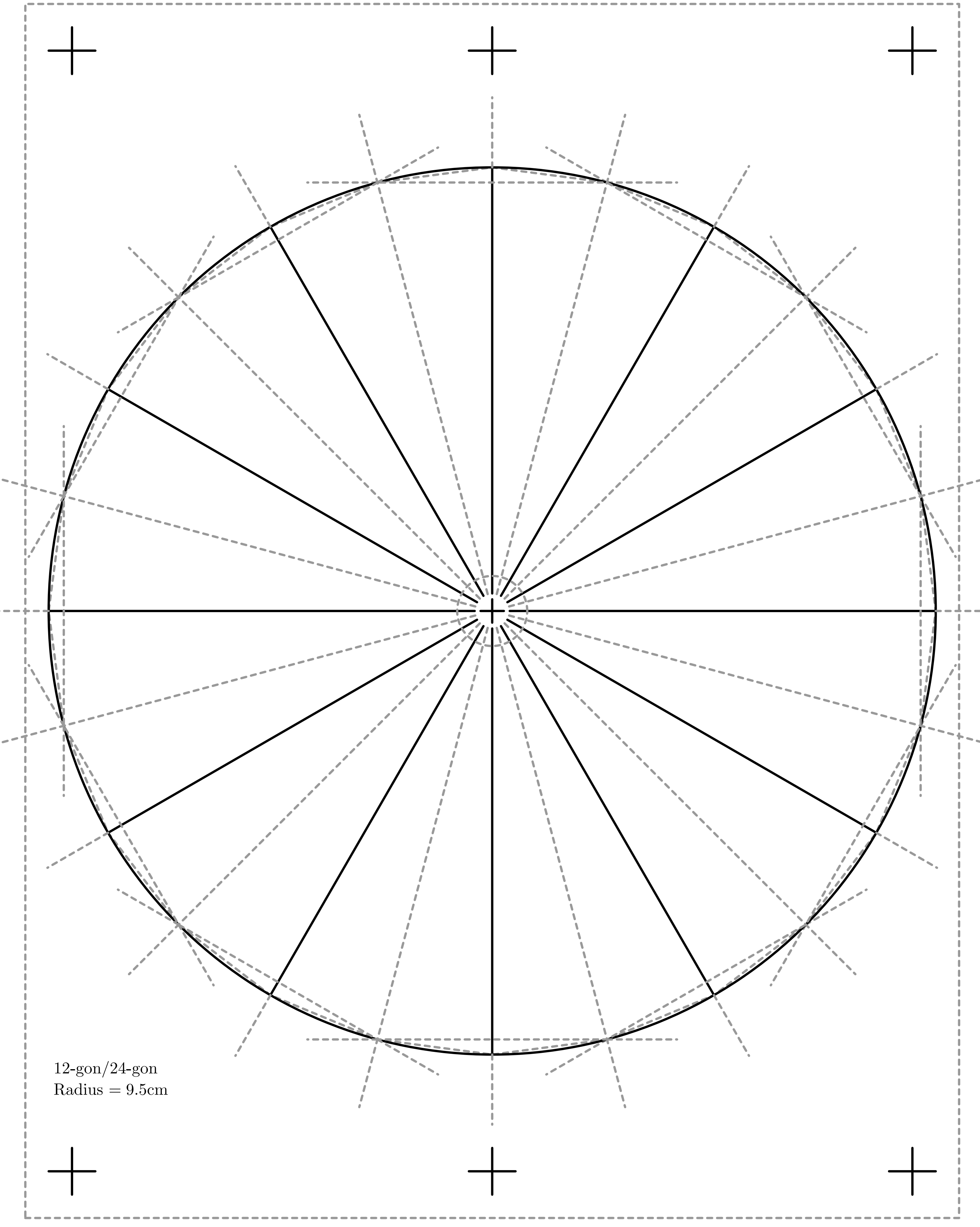




11-gon/22-gon
Radius = 9.5cm

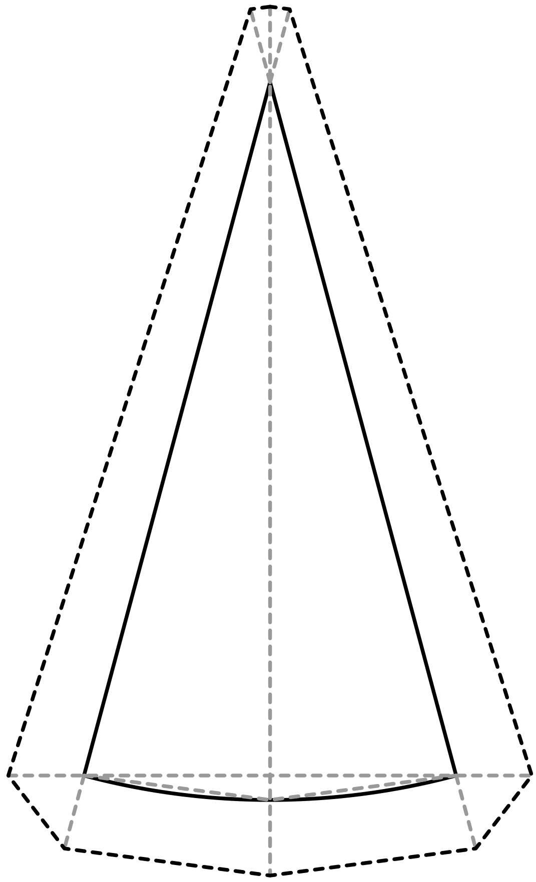
Section 11-gon/22-gon

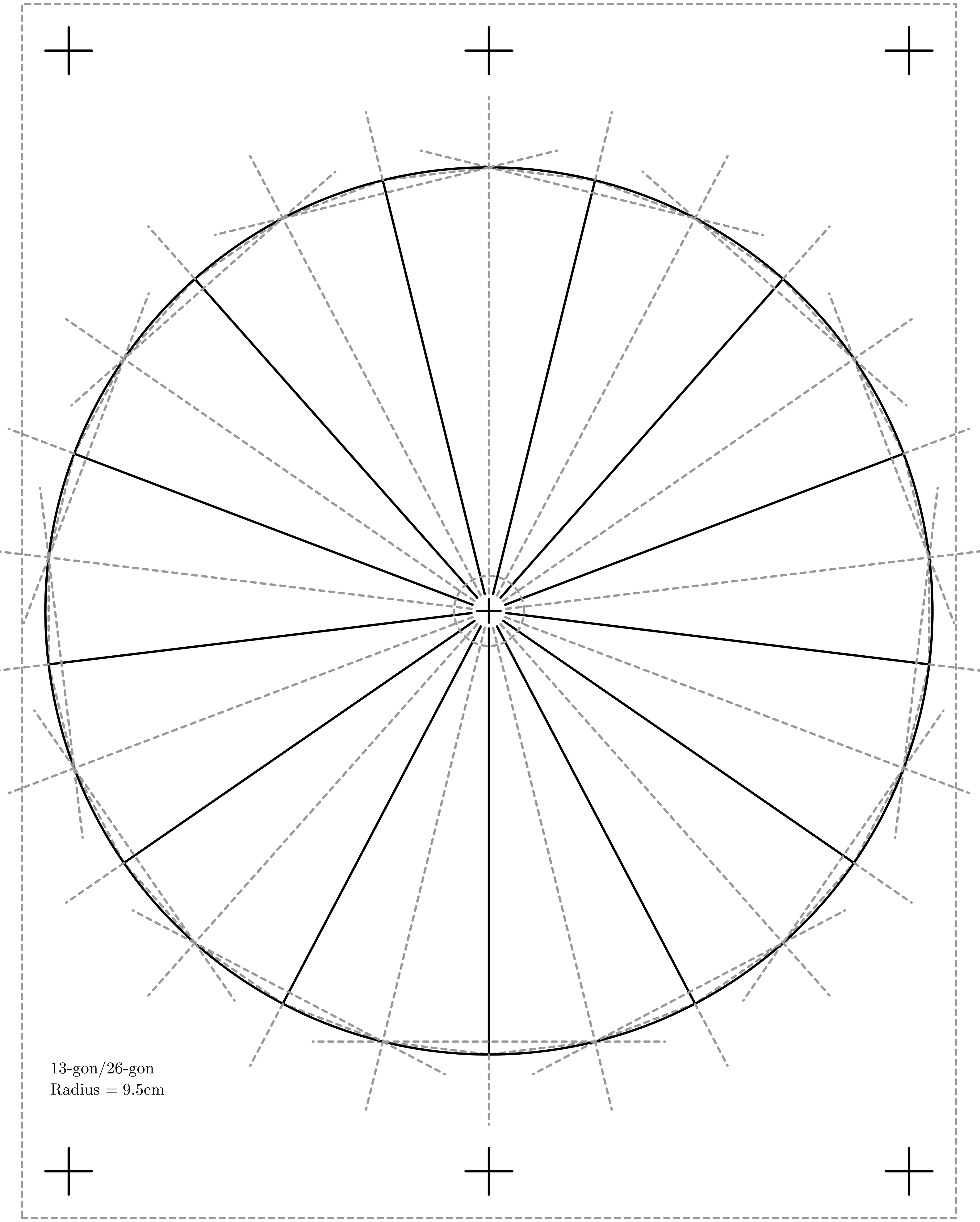




12-gon/24-gon
Radius = 9.5cm

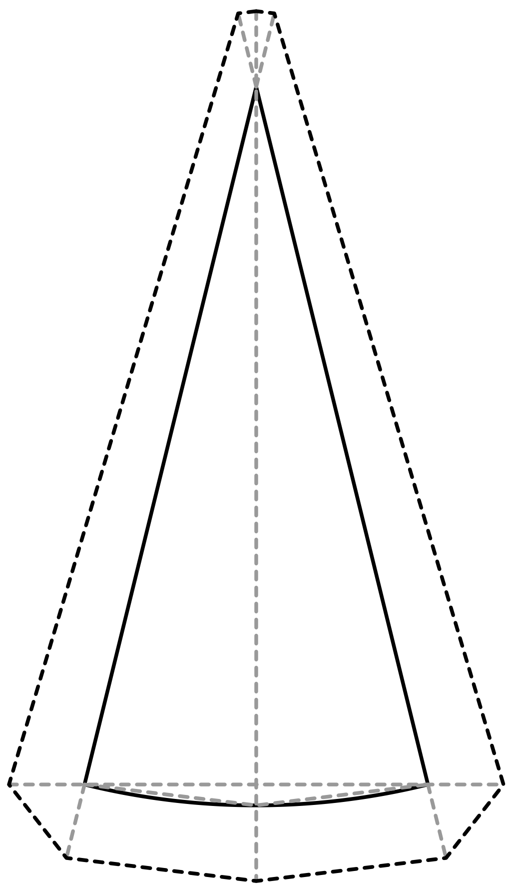
Section 12-gon/24-gon

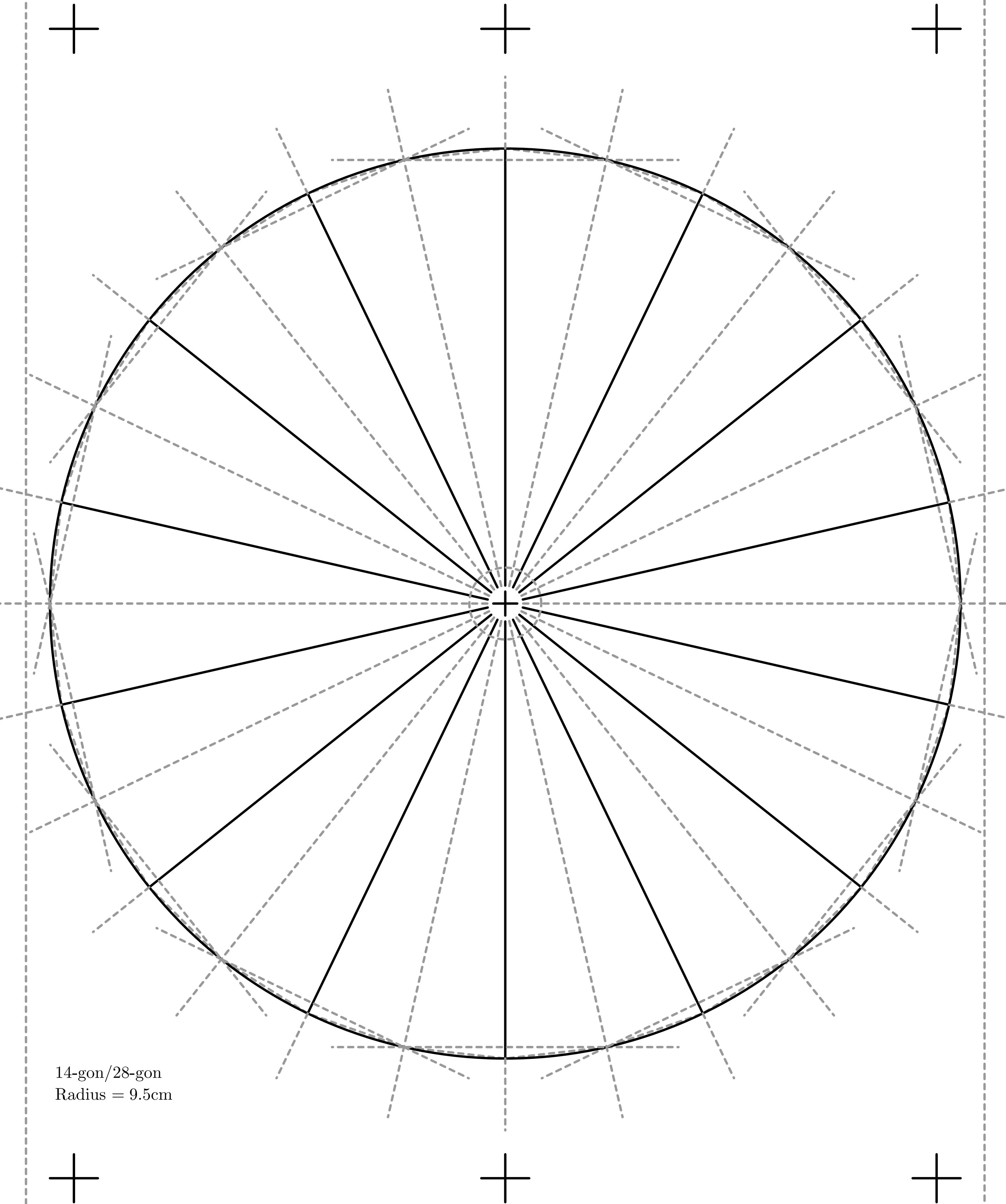




13-gon/26-gon
Radius = 9.5cm

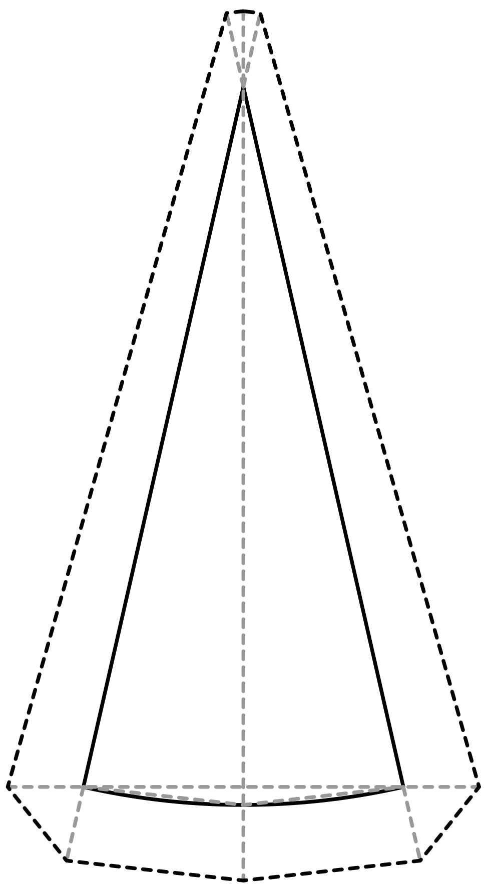
Section 13-gon/26-gon

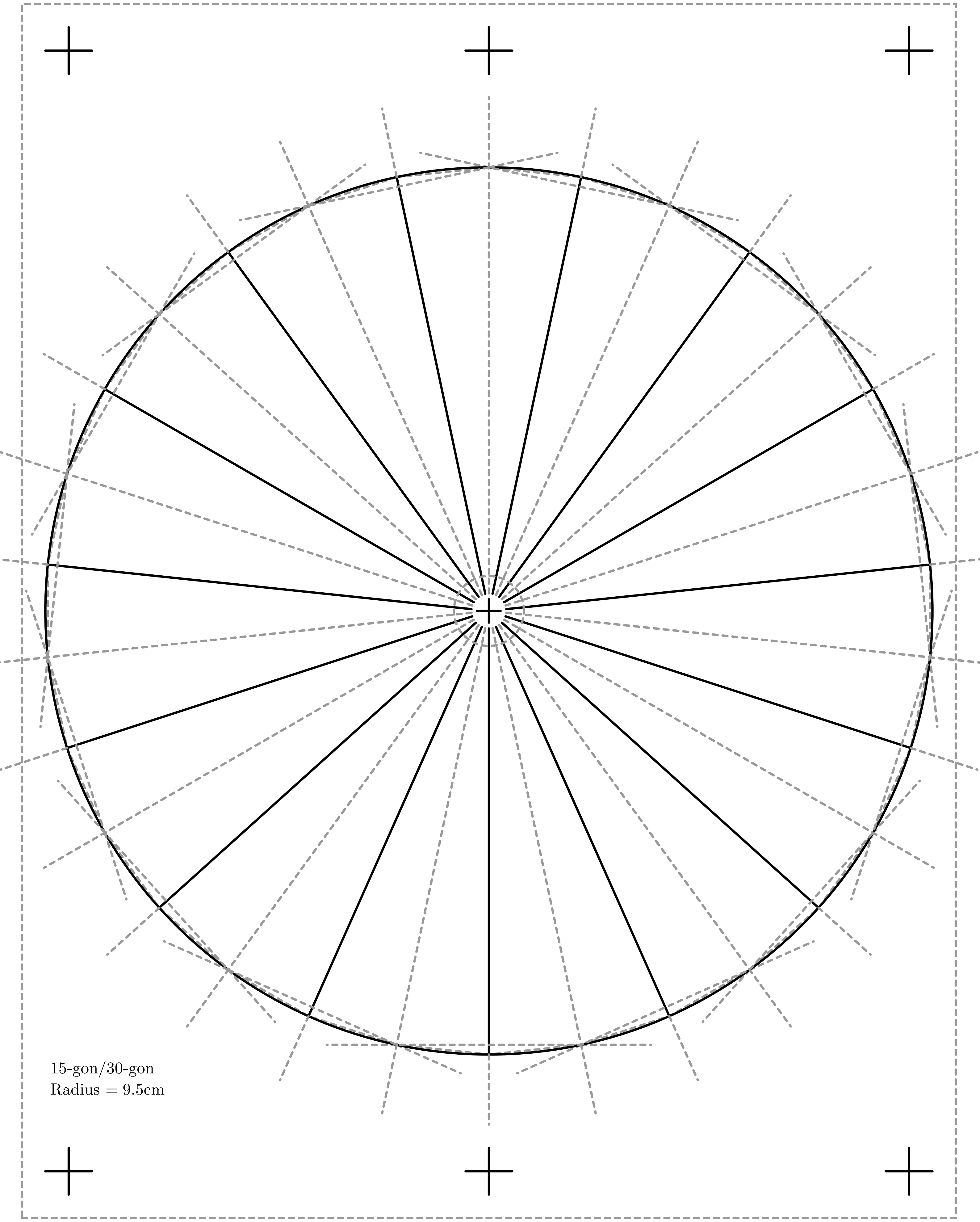




14-gon/28-gon
Radius = 9.5cm

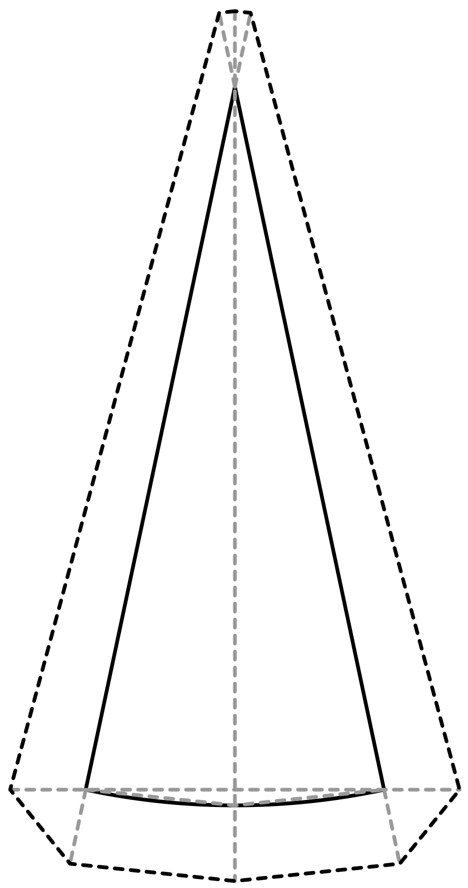
Section 14-gon/28-gon

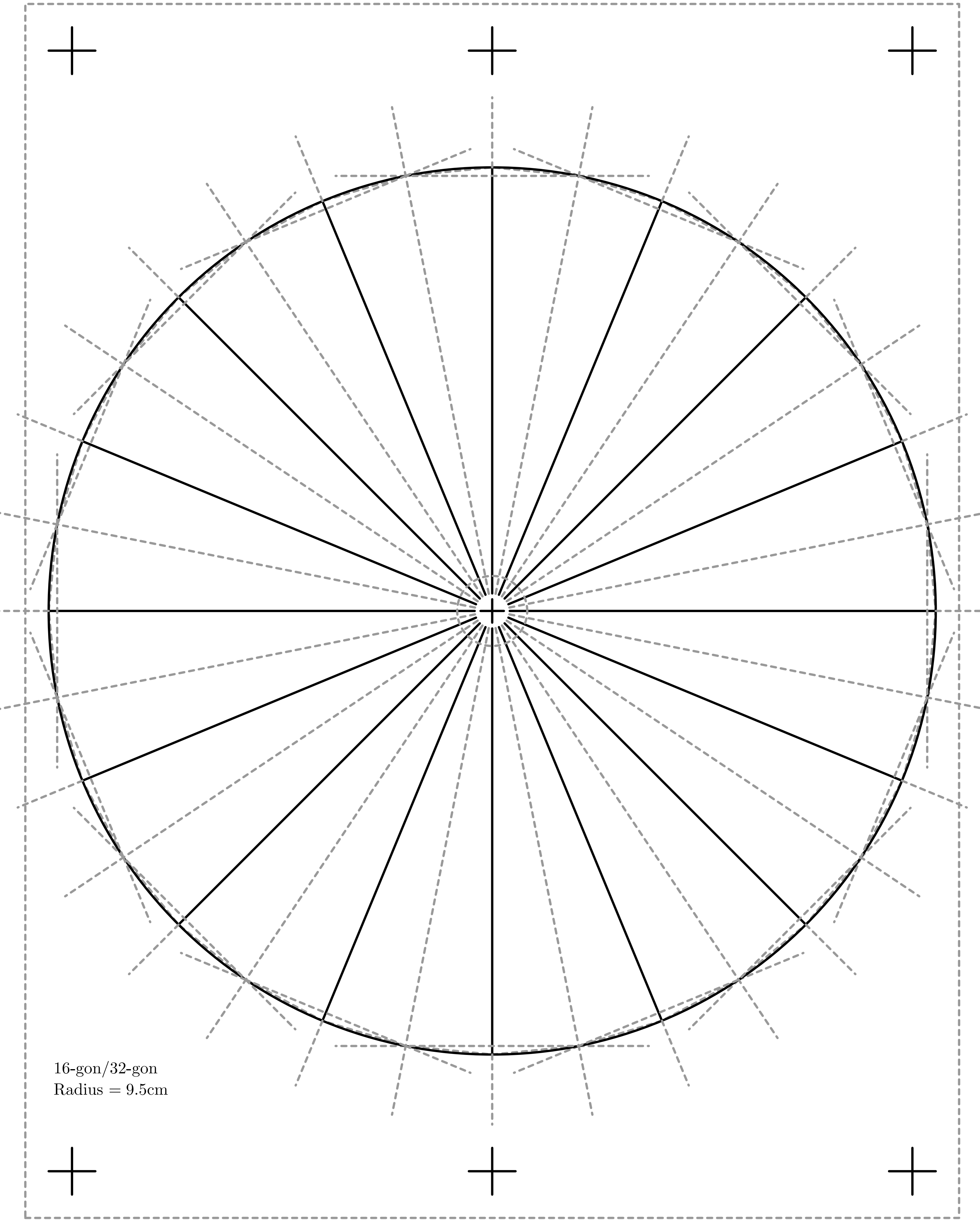




15-gon/30-gon
Radius = 9.5cm

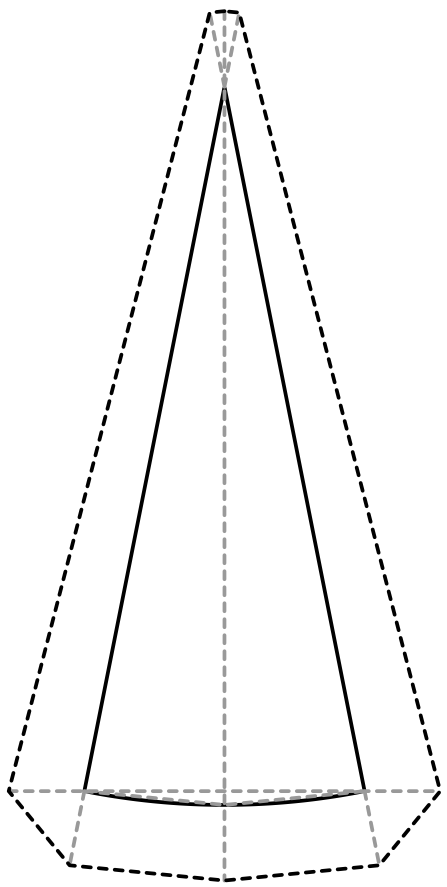
Section 15-gon/30-gon

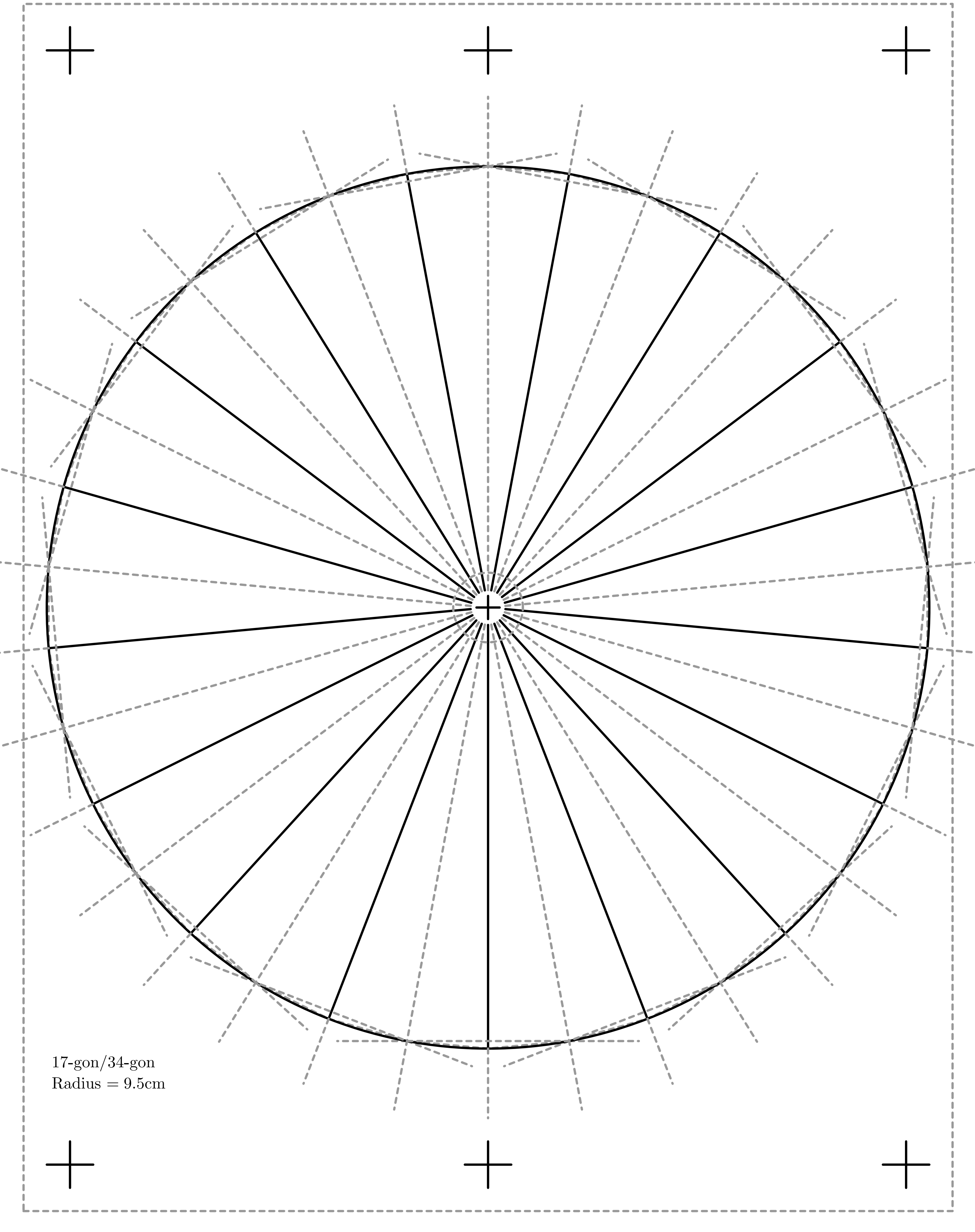




16-gon/32-gon
Radius = 9.5cm

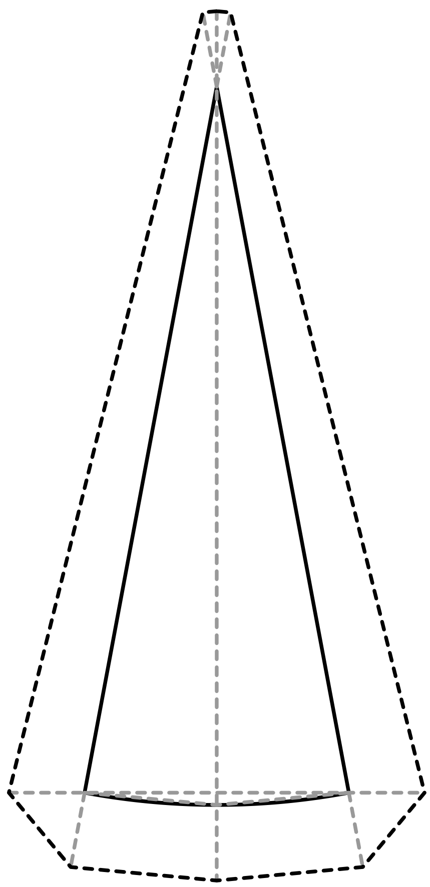
Section 16-gon/32-gon

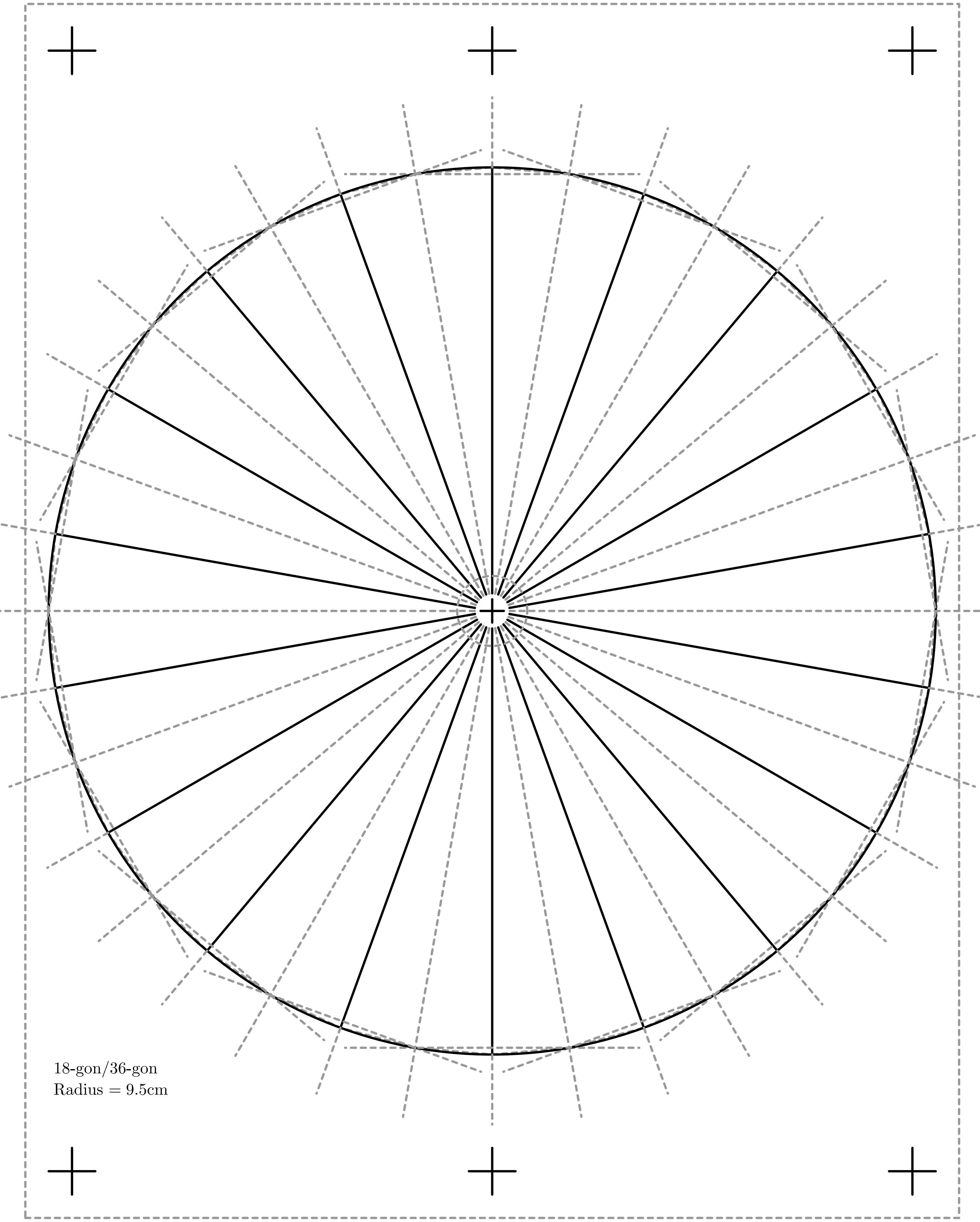




17-gon/34-gon
Radius = 9.5cm

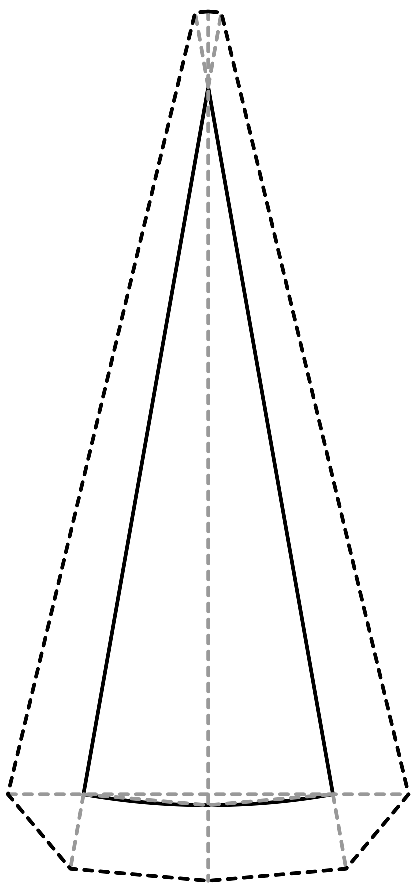
Section 17-gon/34-gon

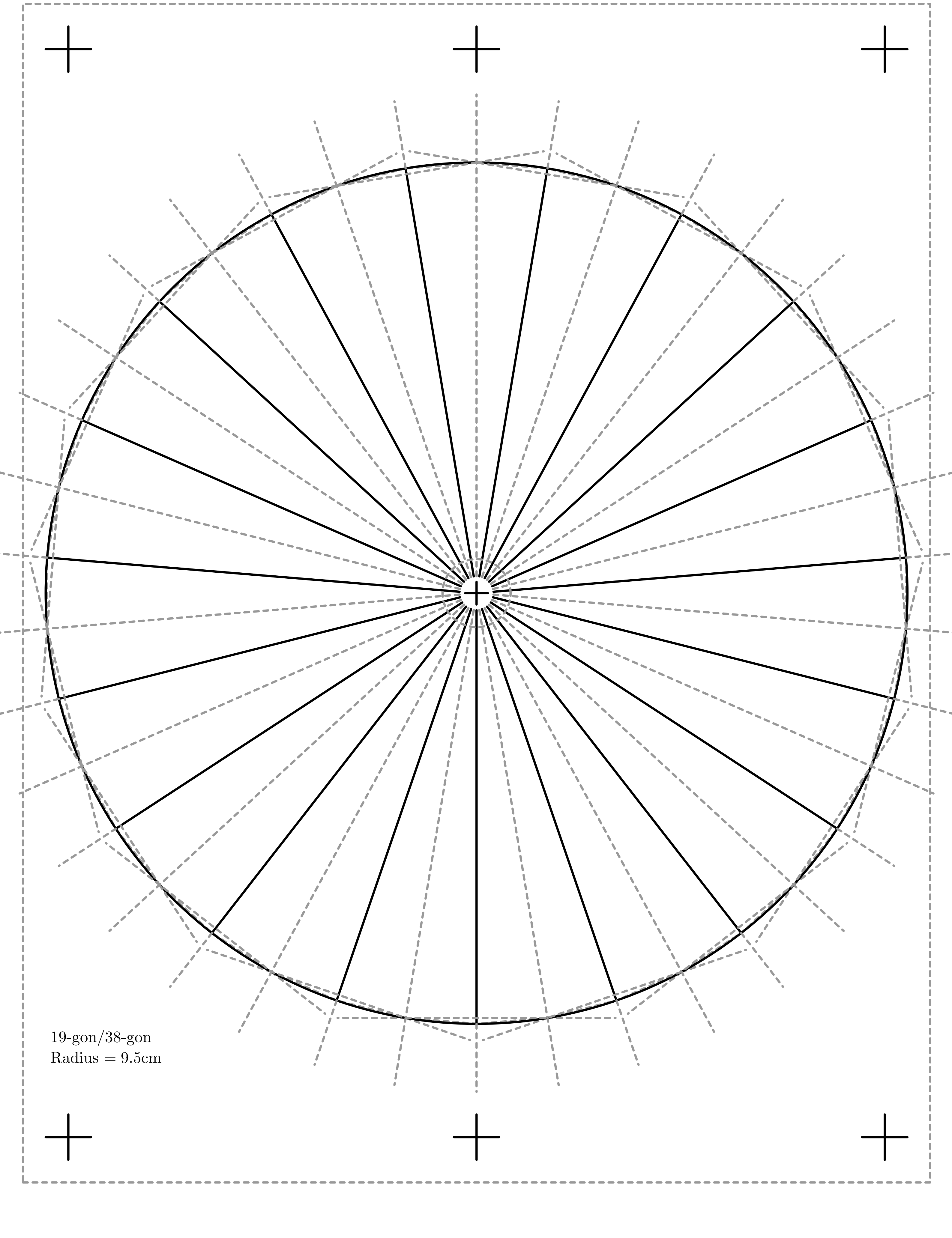




18-gon/36-gon
Radius = 9.5cm

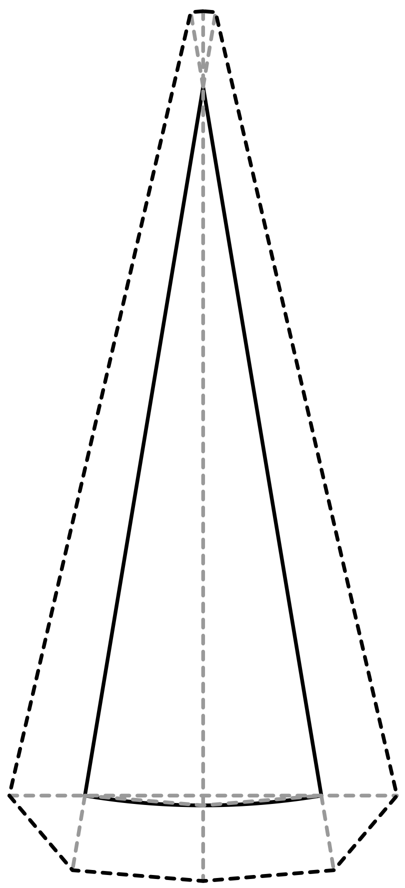
Section 18-gon/36-gon

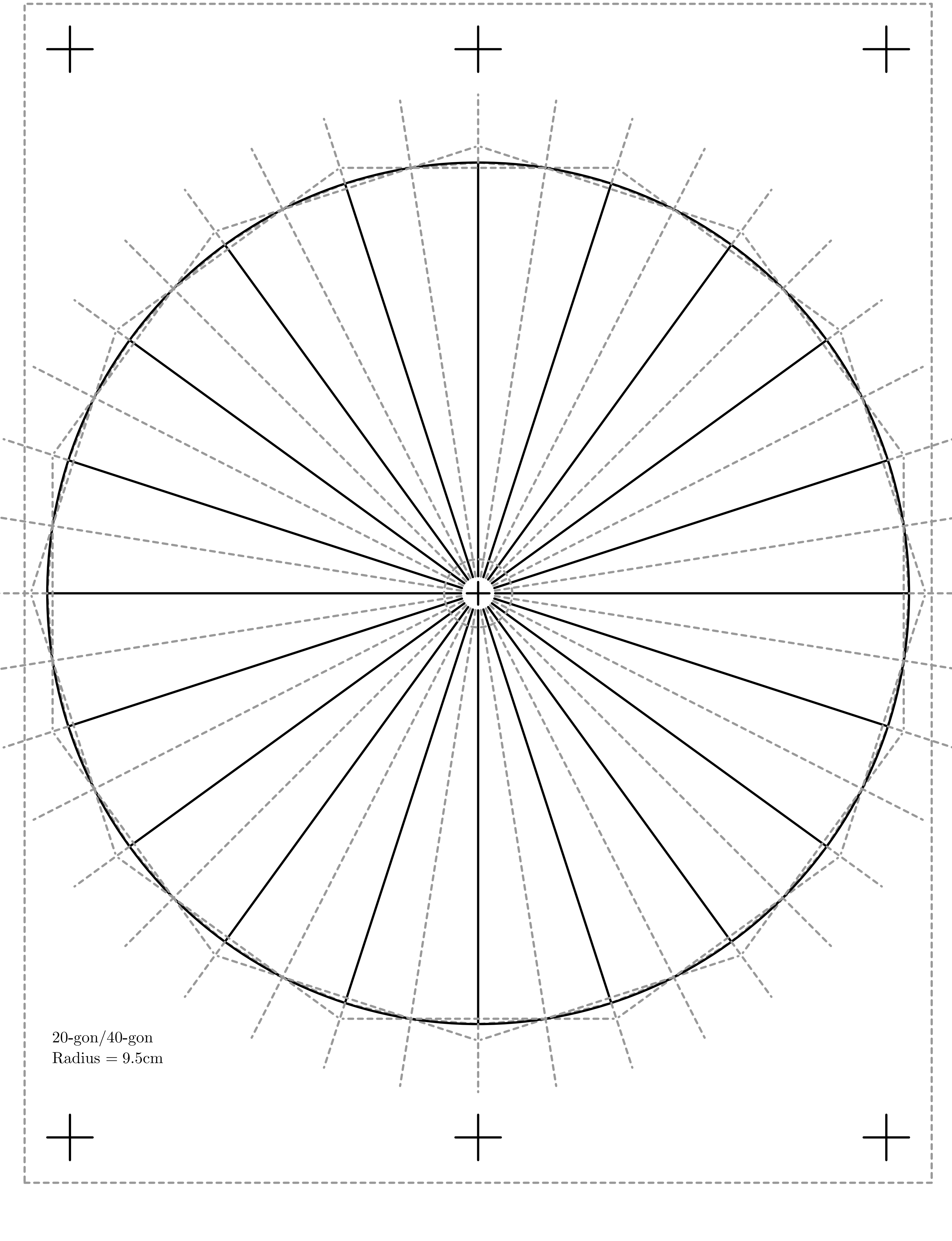




19-gon/38-gon
Radius = 9.5cm

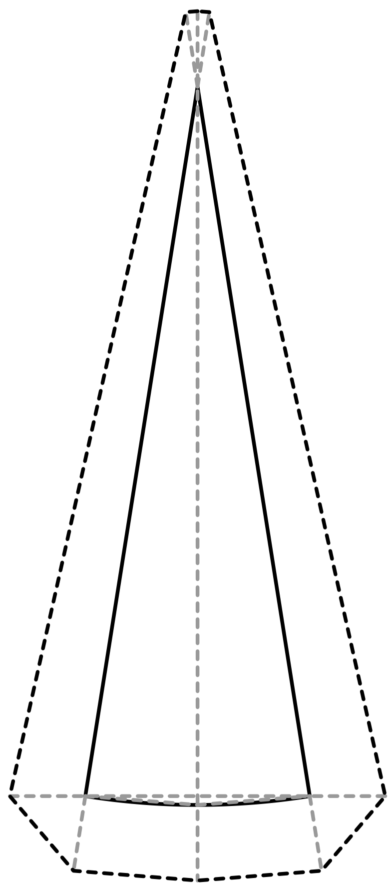
Section 19-gon/38-gon

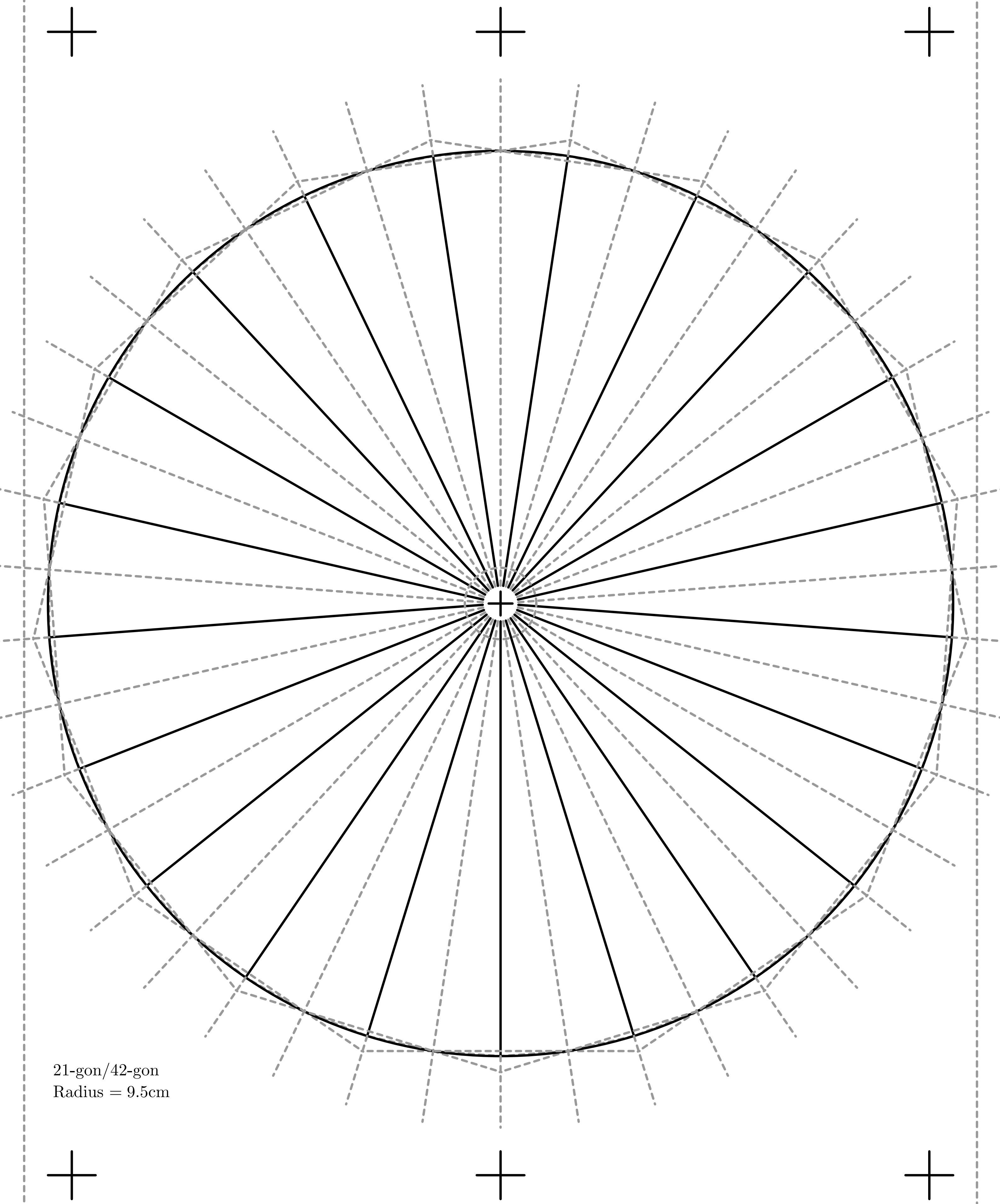




20-gon/40-gon
Radius = 9.5cm

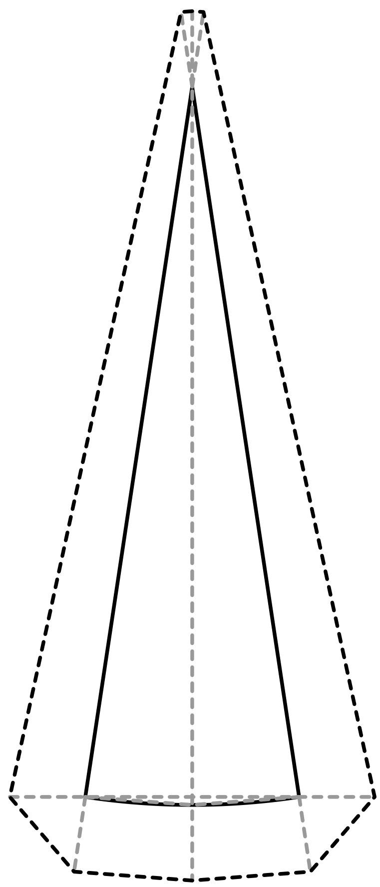
Section 20-gon/40-gon

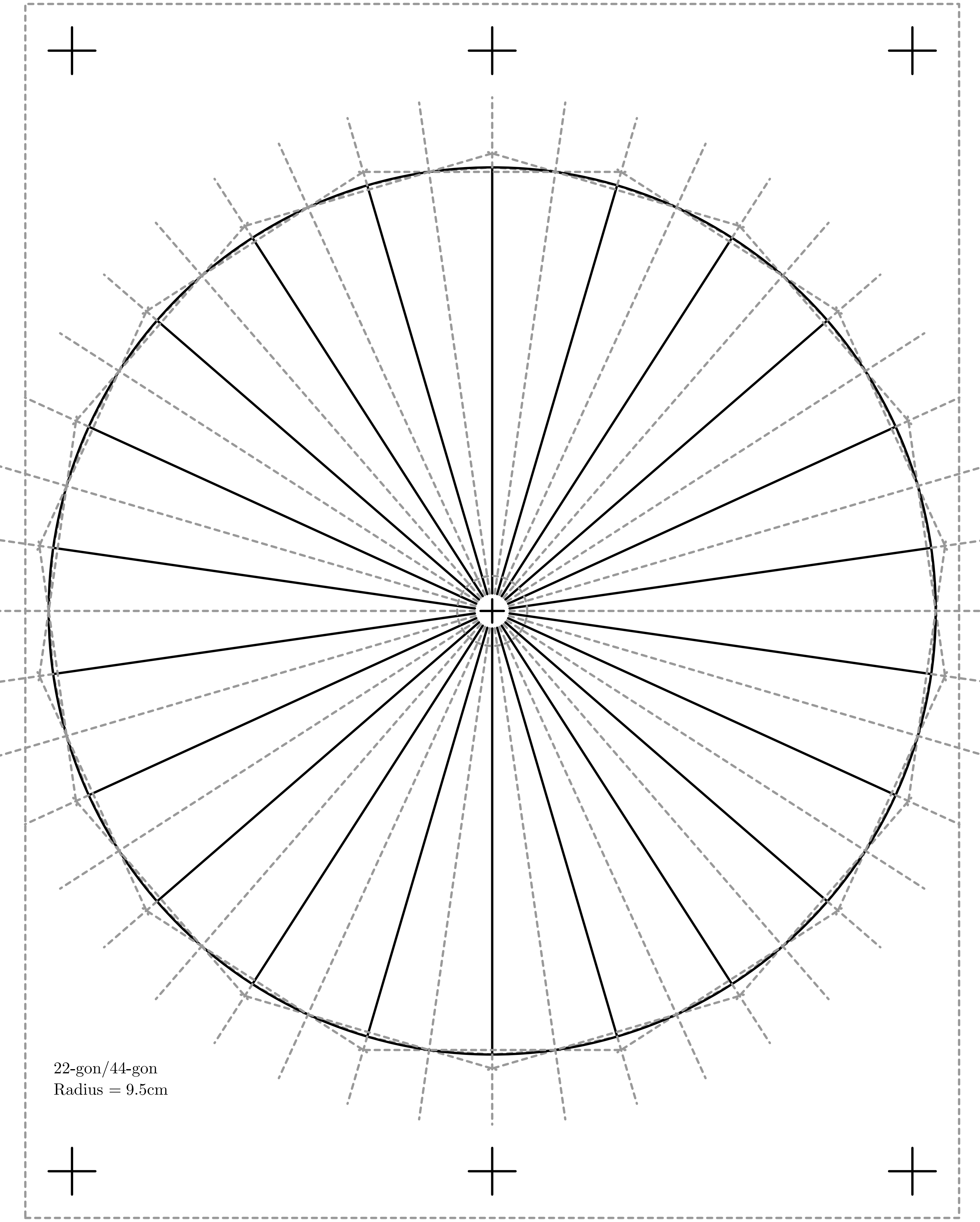




21-gon/42-gon
Radius = 9.5cm

Section 21-gon/42-gon





22-gon/44-gon
Radius = 9.5cm

Section 22-gon/44-gon