Star Tattoo Drawing: Point Geometry and Outline Design

Original tasks 1, 2 / independent work

Task 1

A five-point star has center C and radius 20 mm. P1 is at the top. What is the straight-line distance from C to P3 if P3 is placed correctly on the circle?

Task 2

You place five points on a circle at equal spacing. What is the angle between adjacent points in degrees?

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Original tasks 3, 4 / independent work

Task 3

A star design must fit inside a 50 mm by 50 mm bounding box. The center is at the box center and the radius is 22 mm. Does the star fit if one point is at the top and the design is not rotated?

Task 4

You draw a pentagram guide and then trace the outer silhouette. How many inner intersection points do you mark before tracing the silhouette?