

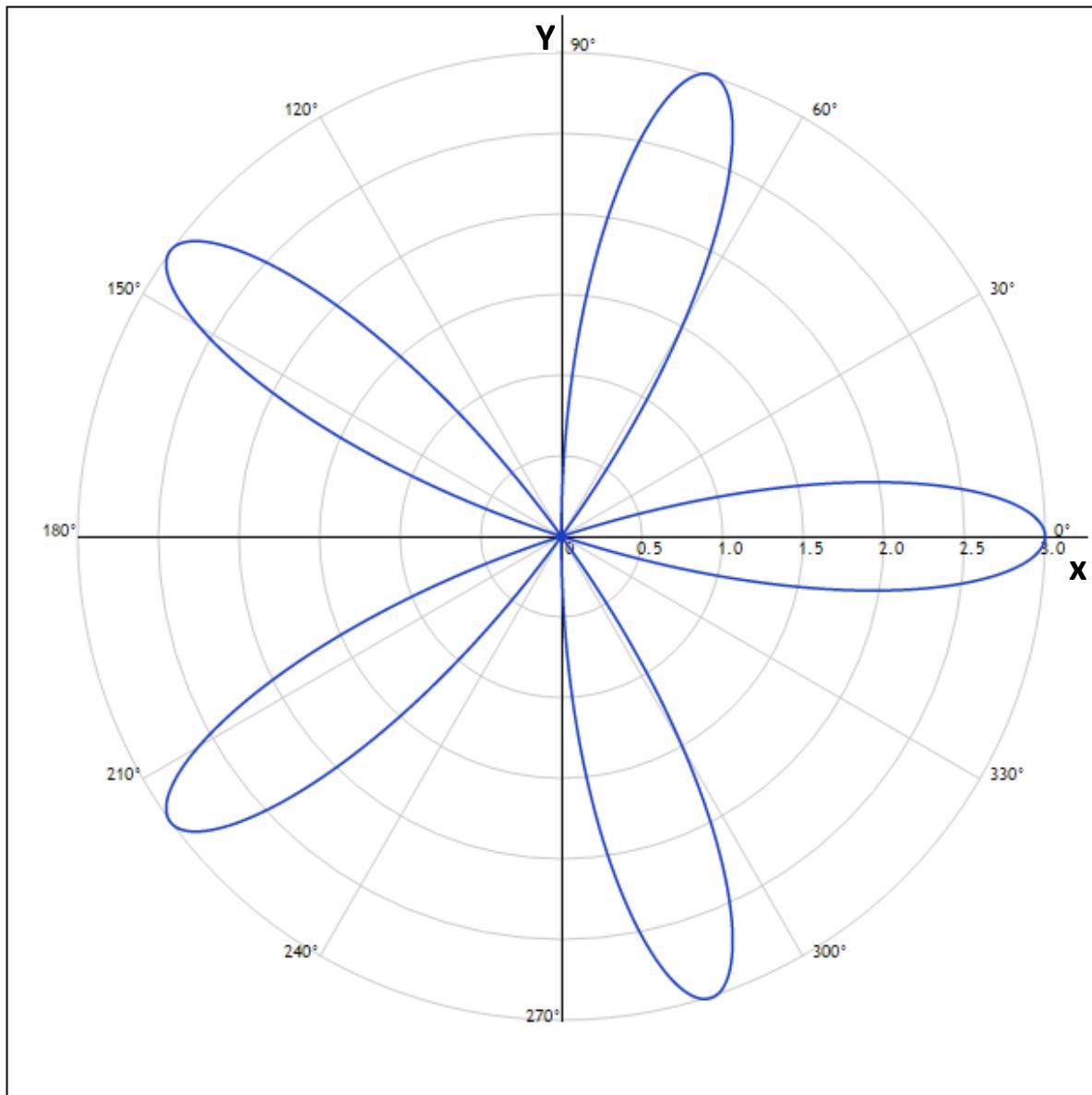
Question #54286, Math / Analytic Geometry

Determine if the graph is symmetric about the x-axis, the y-axis, or the origin.

$$r = 3 \cos 5\theta$$

Solution:

If we will draw the graph, we can easily determine his symmetry:



■ $r(a) = 3 \cos(5a)$

- Graph is symmetric about the x-axis;
- Graph isn't symmetric about the y-axis;
- Graph isn't symmetric about the origin (point [0,0]);