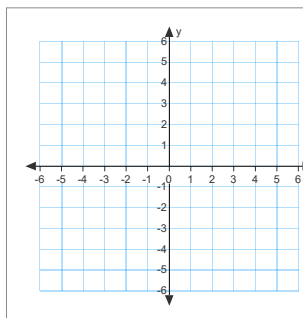


Polar Symmetry

Symmetry over the polar axis (x-axis)

rectangular: $(x, y) \rightarrow (x, -y)$

polar: $(r, \theta) \rightarrow (r, -\theta)$ OR $(-r, \pi - \theta)$



Symmetry over $\theta = \frac{\pi}{2}$ (y-axis)

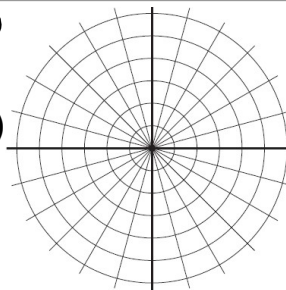
rectangular: $(x, y) \rightarrow (-x, y)$

polar: $(r, \theta) \rightarrow (-r, -\theta)$ OR $(r, \pi - \theta)$

Symmetry over the pole (origin)

rectangular: $(x, y) \rightarrow (-x, -y)$

polar: $(r, \theta) \rightarrow (-r, \theta)$ OR $(r, \pi + \theta)$



May 5-12:56 PM