

9 Polar coordinates — Part 2 — Answers

Answers

Work through these after you have tried the questions yourself.

2.1 by a distance r from the origin and an angle θ from the positive x -axis.

2.2 $x = r \cos \theta$ and $y = r \sin \theta$.

2.3 $x = 3 \cos 0^\circ = 3$, $y = 3 \sin 0^\circ = 0$, so $(3, 0)$.

2.4 $x = 4 \cos 90^\circ = 0$, $y = 4 \sin 90^\circ = 4$, so $(0, 4)$.

2.5 it makes round or rotating shapes (circles, spirals) much simpler to describe.