

Quiz**Name**

In both figures below, a polar coordinate system and a Cartesian xy -coordinate system are superimposed. Use the interplay between the two coordinate systems to

1. Sketch a precise graph of the polar function $r = \frac{1}{\sin \theta + \cos \theta}$.



2. Sketch a precise graph of the polar function $r = 2 \sin \theta$ (make use of the strategy of completing the square).

