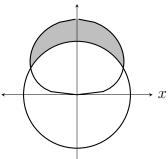
1. The graphs of the polar equations $r = \sqrt{\sin(\theta)}$ and $r = \frac{1}{\sqrt{2}}$ are shown below.

Find the area of the shaded region.



1. The graphs of the polar equations $r = \sqrt{2\cos(\theta)}$ and r = 1 are shown below.

Find the area of the shaded region.

