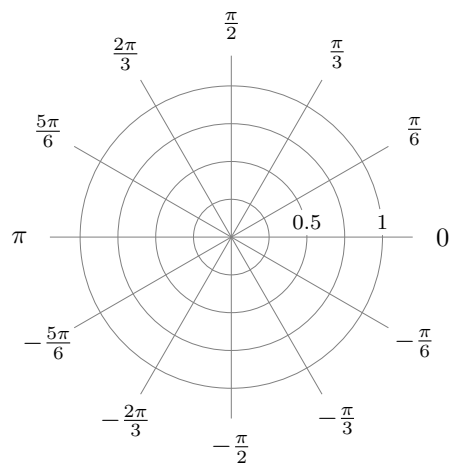

Name: _____

QUIZ 16 ♠

MATH 201
March 26, 2024

1. Find the area of the region outside the circle $r = \frac{1}{2}$ and inside the circle $r = \cos(\theta)$.
(Find intersection points and sketch the curves first.)



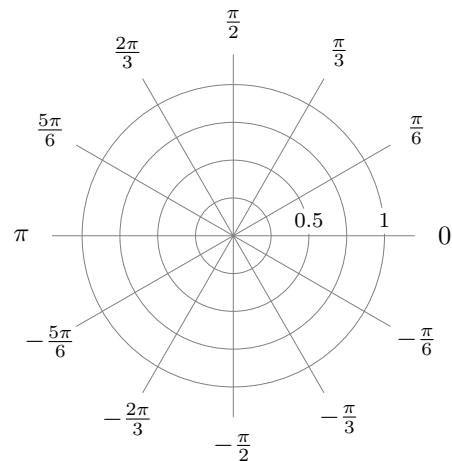
Name: _____

QUIZ 16 \diamond

MATH 201
March 26, 2024

1. Find the area of the region inside the curve $r = \sqrt{\cos(\theta)}$ and outside the circle $r = \frac{1}{\sqrt{2}}$.

(Find intersection points and sketch the curves first. Note: $\frac{1}{\sqrt{2}} \approx 0.7$)

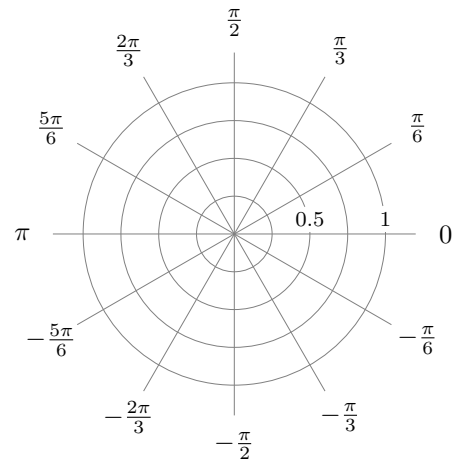


Name: _____

QUIZ 16 ♣

MATH 201
March 26, 2024

1. Find the area inside one leaf of the rose $r = \cos(3\theta)$.
(Sketch the curve first.)



Name: _____

QUIZ 16 ♡

MATH 201
March 26, 2024

1. Find the area that outside the circle $r = 1$ and inside the circle $r = 2 \sin(\theta)$.
(Find the intersection points and sketch the curves first.)

