

# Quiz 6

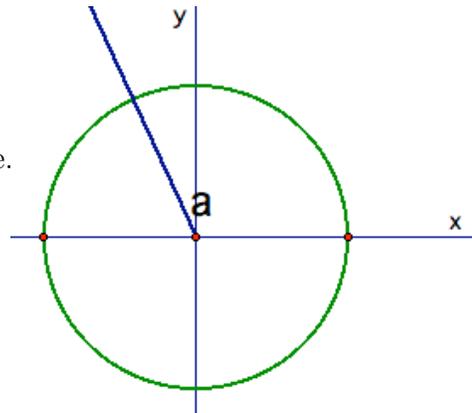
Name:

Show *all* your work algebraically for each and simplify. No credit is given without supporting work.

1. [4] (§4.2 #29) Find the area inside the circle whose equation is

$$x^2 + y^2 - 6y = 1$$

2. [2] (WebHW12 #1) Consider the angle pictured here. The angle  $a$  is an integer when measured in radians. Give the radian measure of the angle.



3. [3] (§5.3 #23 ) Suppose  $\frac{\pi}{2} < \theta < \pi$  and  $\sin \theta = \frac{3}{8}$ . Find  $\cos \theta$  exactly.

4. [1] (§5.3 #11) Find the smallest number  $\theta$  (in radians) larger than  $4\pi$  so that  $\cos \theta = 0$ .