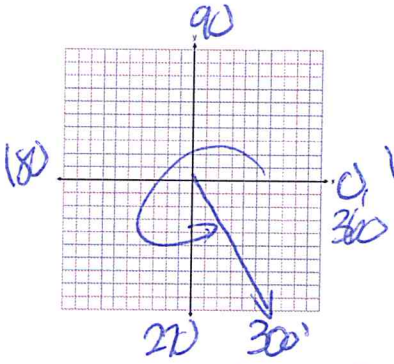
Name Schlansky
Mr. Schlansky

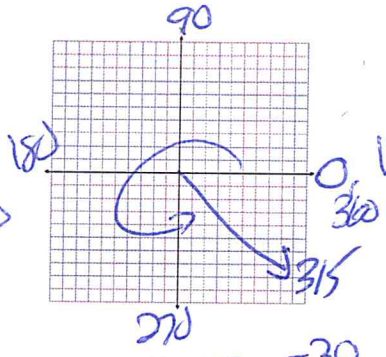
Date _____
Algebra II

Sketching Radian Angles on the Grid

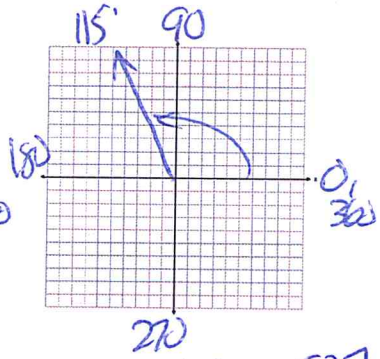
1. $\theta = \frac{5\pi}{3}$ $\cdot \frac{180}{\pi} = 300°$



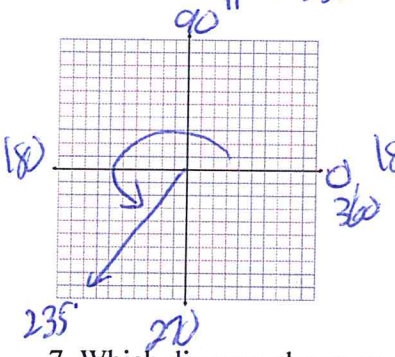
2. $\theta = \frac{7\pi}{4}$ $\cdot \frac{180}{\pi} = 315°$



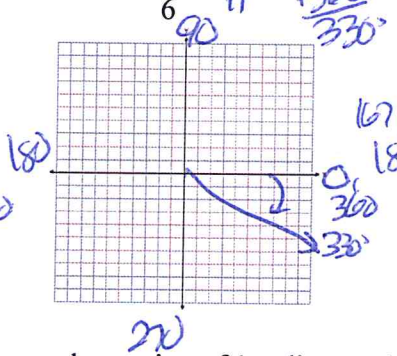
3. $\theta = 2 \cdot \frac{180}{\pi} \approx 115°$



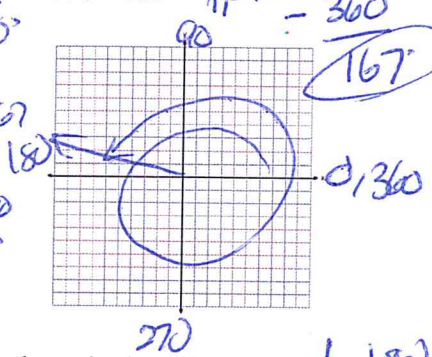
4. $\theta = 4.1 \cdot \frac{180}{\pi} \approx 235°$



5. $\theta = -\frac{\pi}{6} \cdot \frac{180}{\pi} = -30$ $+360$ $330°$



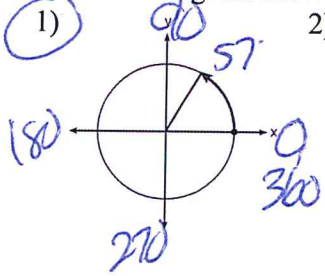
6. $\theta = 9.2 \cdot \frac{180}{\pi} \approx 527$ -360 $167°$



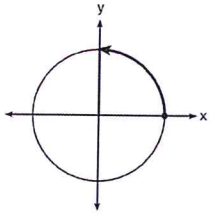
7. Which diagram shows an angle rotation of 1 radian on the unit circle?

$1 \cdot \frac{180}{\pi} \approx 57°$

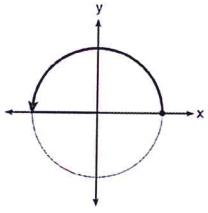
1)



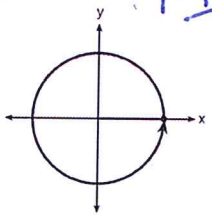
2)



3)



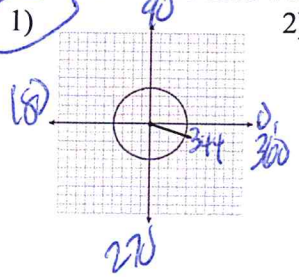
4)



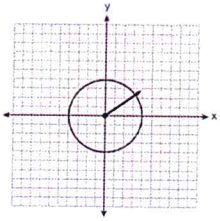
8. Which of the following sketches would represent 6 radians?

$6 \cdot \frac{180}{\pi} \approx 344°$

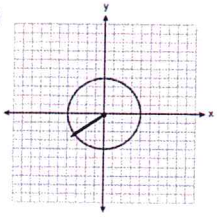
1)



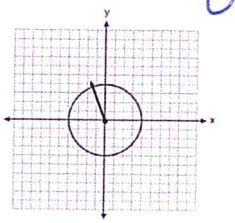
2)



3)

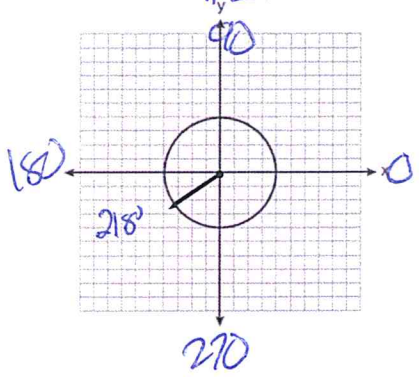


4)



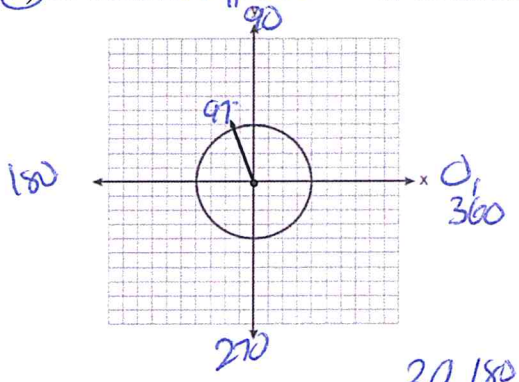
9. Which angle is sketched below?

1) 2.4 radians
2) 4.5 radians
3) 3.8 radians
4) 5.2 radians

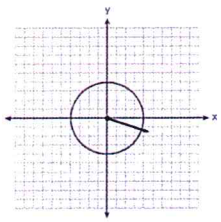


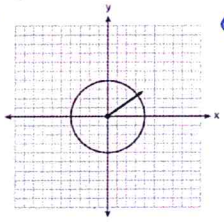
10. Which angle is sketched below?

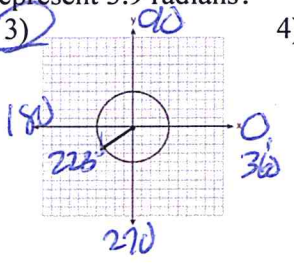
1) 1 radian
2) 1.7 radians
3) 3 radians
4) 4.1 radians

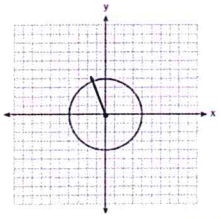


11. Which of the following sketches would represent 3.9 radians?

1) 

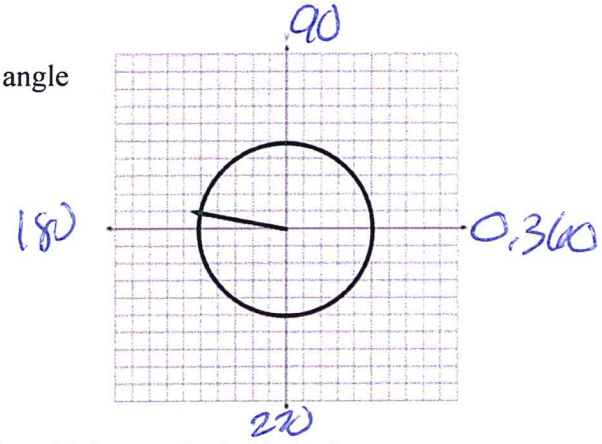
2) 

3) 

4) 

12. Which of the following can be the radian measure of the angle sketched below?

1) 1.5
2) 3
3) 3.8
4) 5



13. An angle, θ, is rotated counterclockwise on the unit circle, with its terminal side in the second quadrant, as shown in the diagram below.

Which value represents the radian measure of angle θ?

1) 1
2) 2
3) 65.4
4) 114.6