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Date \_\_\_\_\_  
Algebra II

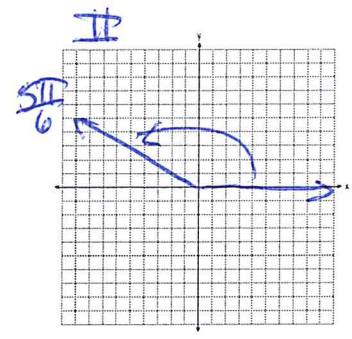
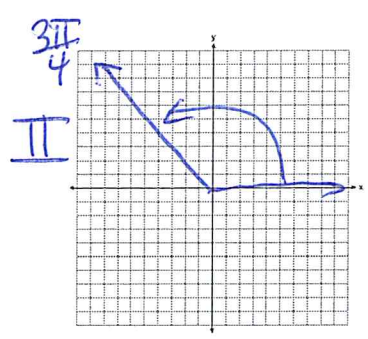
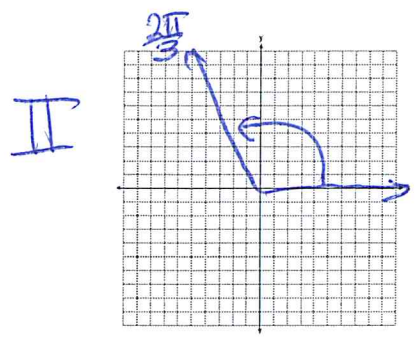
## Sketching Radian Angles on the Grid

Sketch the following angles and state the quadrant

1.  $\theta = \frac{2\pi}{3} \cdot \frac{180}{\pi} = 120^\circ$

2.  $\theta = \frac{3\pi}{4} \cdot \frac{180}{\pi} = 135^\circ$

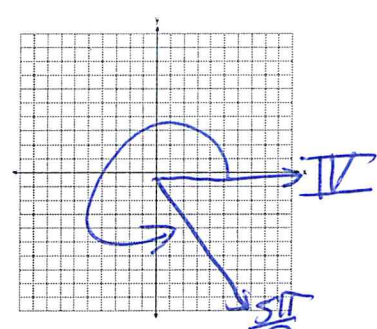
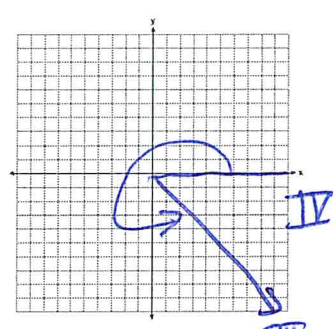
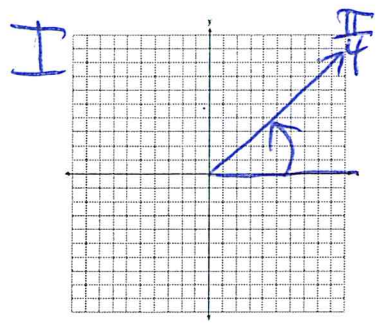
3.  $\theta = \frac{5\pi}{6} \cdot \frac{180}{\pi} = 150^\circ$



4.  $\theta = \frac{\pi}{4} \cdot \frac{180}{\pi} = 45^\circ$

5.  $\theta = \frac{7\pi}{4} \cdot \frac{180}{\pi} = 315^\circ$

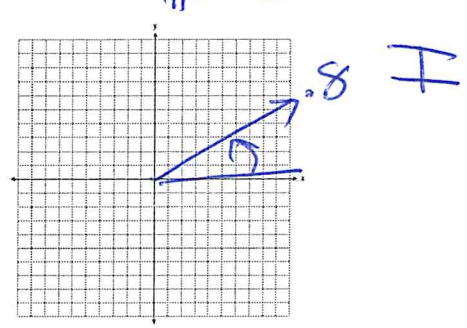
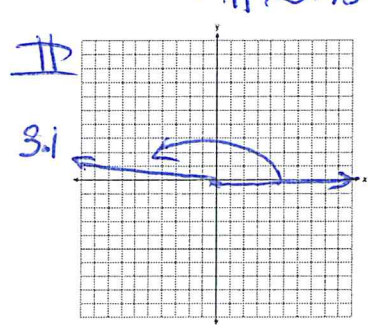
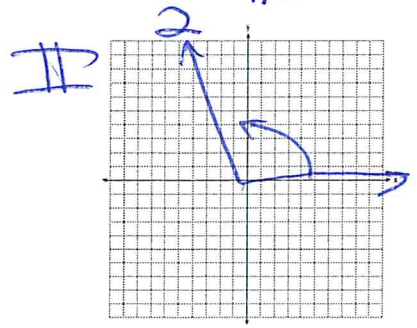
6.  $\theta = \frac{5\pi}{3} \cdot \frac{180}{\pi} = 300^\circ$



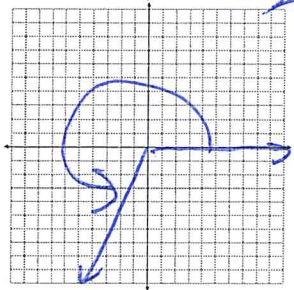
7.  $\theta = 2 \cdot \frac{180}{\pi} \approx 115^\circ$

8.  $\theta = 3.1 \cdot \frac{180}{\pi} \approx 178^\circ$

9.  $\theta = 0.8 \cdot \frac{180}{\pi} \approx 46^\circ$



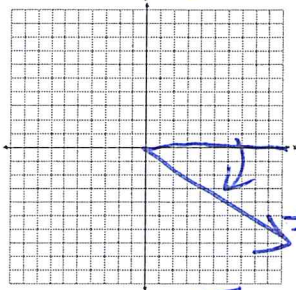
$$10. \theta = \frac{10\pi}{3} \cdot \frac{180}{\pi} = \frac{600}{3} = 200$$



III

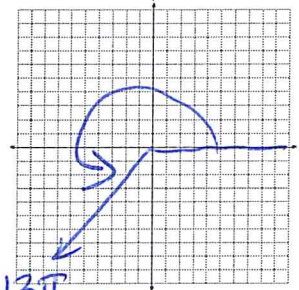
$\frac{10\pi}{3}$

$$11. \theta = -\frac{\pi}{6} \cdot \frac{180}{\pi} = -30$$



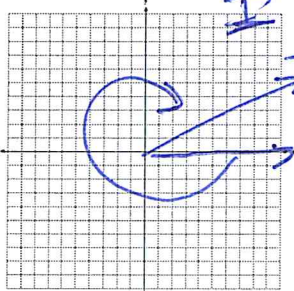
IV

$$12. \theta = \frac{13\pi}{4} \cdot \frac{180}{\pi} = \frac{585}{4} = 146.25$$



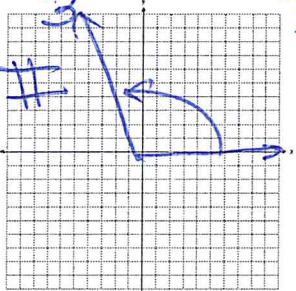
$\frac{13\pi}{4}$  III

$$13. \theta = \frac{-11\pi}{6} \cdot \frac{180}{\pi} = -330$$



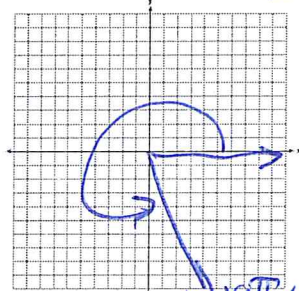
I

$$14. \theta = \frac{14\pi}{3} \cdot \frac{180}{\pi} = \frac{840}{3} = 280$$



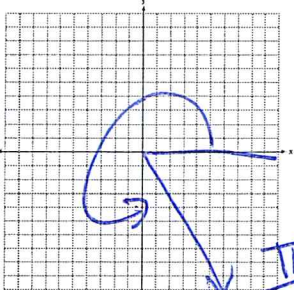
II

$$15. \theta = \frac{18\pi}{5} \cdot \frac{180}{\pi} = \frac{648}{5} = 129.6$$



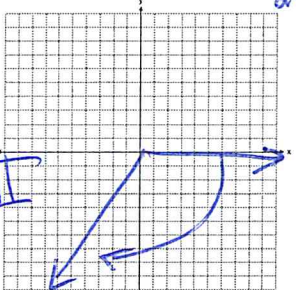
IV

$$16. \theta = 5.2 \cdot \frac{180}{\pi} \approx 298$$



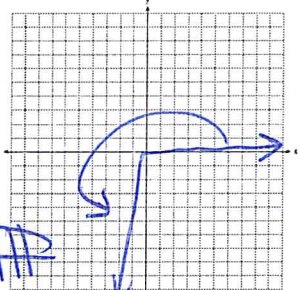
5.2

$$17. \theta = -2.1 \cdot \frac{180}{\pi} \approx -120$$



-2.1

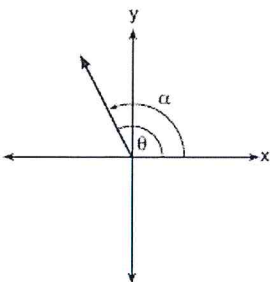
$$19. \theta = 4.7 \cdot \frac{180}{\pi} \approx 269$$



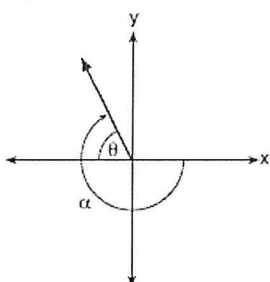
4.7

19. Which diagram represents an angle,  $\alpha$ , measuring  $\frac{13\pi}{20}$  radians drawn in standard position, and its reference angle,  $\theta$ ?  $\frac{13\pi}{20} \cdot \frac{180}{\pi} = 117^\circ$

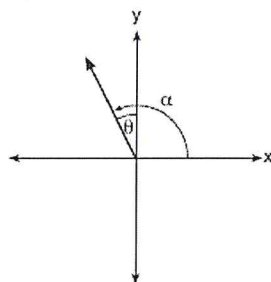
1)



2)



3)



4)

