Precalculus Unit Circle Review   Name: **Key**_____ Block: ___

Covert the radians to degrees

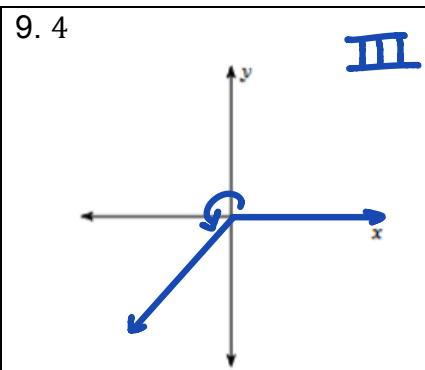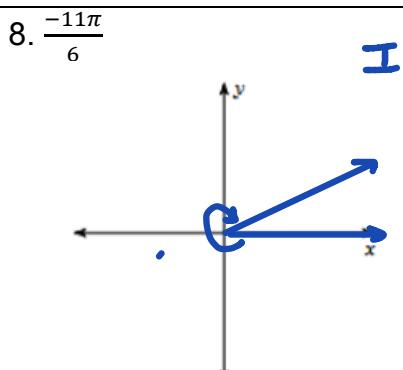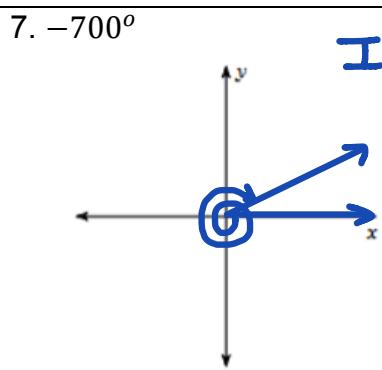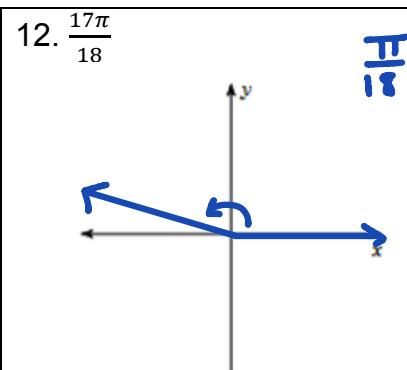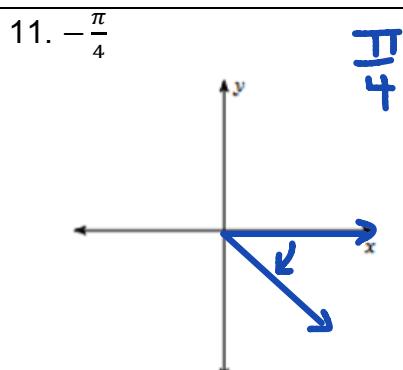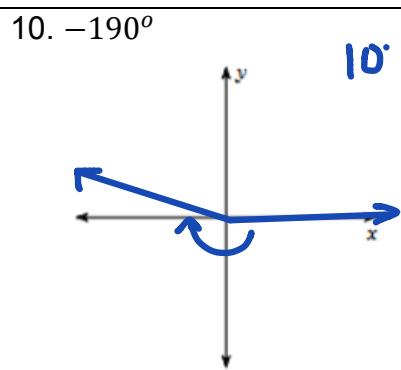| 1. $\frac{5\pi}{3}$ **300°**	2. $-\frac{\pi}{7}$ **-25.7°**	3. $\frac{3\pi}{4}$ **135**

Convert the degrees to radians

4. 260° $\frac{13\pi}{19}$	5. -45° $\frac{-\pi}{4}$	6. -200° $-\frac{10\pi}{9}$

Draw the angle and state which quadrant the angle will terminate.

7. -700° **I**	8. $\frac{-11\pi}{6}$ **I**	9. 4 **III**

Draw the angle and state the reference angle.

10. -190° **10°**	11. $-\frac{\pi}{4}$ **$\frac{\pi}{4}$**	12. $\frac{17\pi}{18}$ **$\frac{\pi}{18}$**

State one positive and one negative coterminal angle.

13. 60° **420°, -300°**	14. -380° **-20°, 340°**
15. -75° **285°, -435°**	16. $\frac{\pi}{6}$ **$\frac{13\pi}{6}$, $\frac{-11\pi}{6}$**
17. $\frac{23\pi}{3}$ **$\frac{17\pi}{3}$, $\frac{-\pi}{3}$**	18. -6π **-4π, 2π**

Use the unit circle to answer the following.

1. $\sin\dfrac{4\pi}{3}$ $-\dfrac{\sqrt{3}}{2}$	2. $\tan\dfrac{-3\pi}{4}$ 1	3. $\tan\pi$ 0
4. $\cos(-16\pi)$ 1	5. $\cos\dfrac{-2\pi}{3}$ $-\dfrac{1}{2}$	6. $\sin\dfrac{19\pi}{4}$ $\dfrac{\sqrt{2}}{2}$
7. $\csc\dfrac{7\pi}{6}$ -2	8. $\cos\dfrac{3\pi}{2}$ 0	9. $\sin\dfrac{7\pi}{4}$ $-\dfrac{\sqrt{2}}{2}$
10. $\tan\dfrac{5\pi}{6}$ $-\dfrac{\sqrt{3}}{3}$	11. $\tan\dfrac{-14\pi}{3}$ $\sqrt{3}$	12. $\sin\dfrac{3\pi}{4}$ $\dfrac{\sqrt{2}}{2}$
13. $\sin\dfrac{-5\pi}{3}$ $\dfrac{\sqrt{3}}{2}$	14. $\tan\dfrac{5\pi}{4}$ 1	15. $\cos 4\pi$ 1
16. $\tan\dfrac{3\pi}{2}$ undefined	17. $\sin 3.14$ 0	18. $\cos\dfrac{5\pi}{4}$ $-\dfrac{\sqrt{2}}{2}$
19. $\sin\dfrac{5\pi}{3}$ $-\dfrac{\sqrt{3}}{2}$	20. $\tan 5\pi$ 0	21. $\cos\dfrac{7\pi}{6}$ $-\dfrac{\sqrt{3}}{2}$
22. $\cot\left(\dfrac{3\pi}{2}\right)$ 0	23. $\tan\left(\dfrac{3\pi}{2}\right)$ undefined	24. $\sec-\dfrac{\pi}{4}$ $\sqrt{2}$