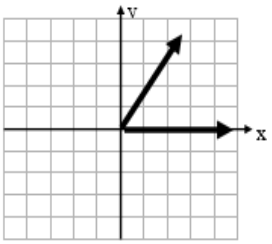
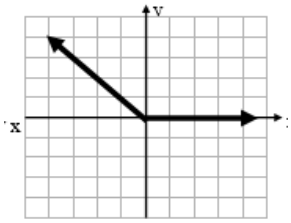
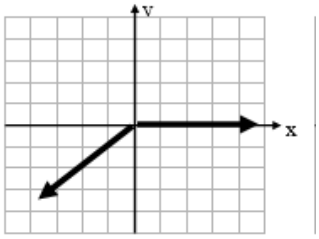
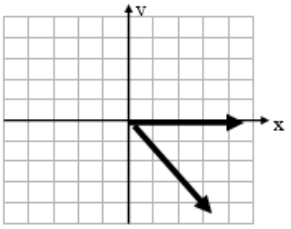
Quadrant	Quadrant 1	Quadrant 2	Quadrant 3	Quadrant 4
Picture:				
Degrees:	Ref $\angle = \theta$	Ref $\angle = 180 - \theta$	Ref $\angle = \theta - 180$	Ref $\angle = 360 - \theta$
Radians:	Ref $\angle = \theta$	Ref $\angle = \pi - \theta$	Ref $\angle = \theta - \pi$	Ref $\angle = 2\pi - \theta$

** If starting angle is Greater than 360° (2π), start by subtracting 360 (2π), from the starting angle until the angle is between 0° and 360° (2π). Then find the reference angle.

** If starting angle is negative, start by adding 360 (2π), from the starting angle until the angle is between 0° and 360° (2π). Then find the reference angle.

For each of the following, find the reference angle θ.

1. $\theta = 57°$
2. $\theta = 113°$
3. $\theta = 300°$
4. $\theta = 280°$
5. $\theta = 100°$
6. $\theta = 420°$
7. $\theta = 340°$
8. $\theta = 225°$
9. $\theta = 143°$
10. $\theta = 30°$
11. $\theta = 120°$
12. $\theta = 315°$
13. $\theta = 240°$
14. $\theta = -230°$
15. $\theta = -135°$
16. $\theta = -60°$
17. $\theta = \frac{7\pi}{6}$
18. $\theta = \frac{5\pi}{3}$
19. $\theta = \frac{\pi}{6}$
20. $\theta = \frac{5\pi}{4}$
21. $\theta = -\frac{2\pi}{3}$
22. $\theta = \frac{-4\pi}{3}$
23. $\theta = \frac{17\pi}{4}$
24. $\theta = \frac{-11\pi}{6}$