

The Weekly Rigor

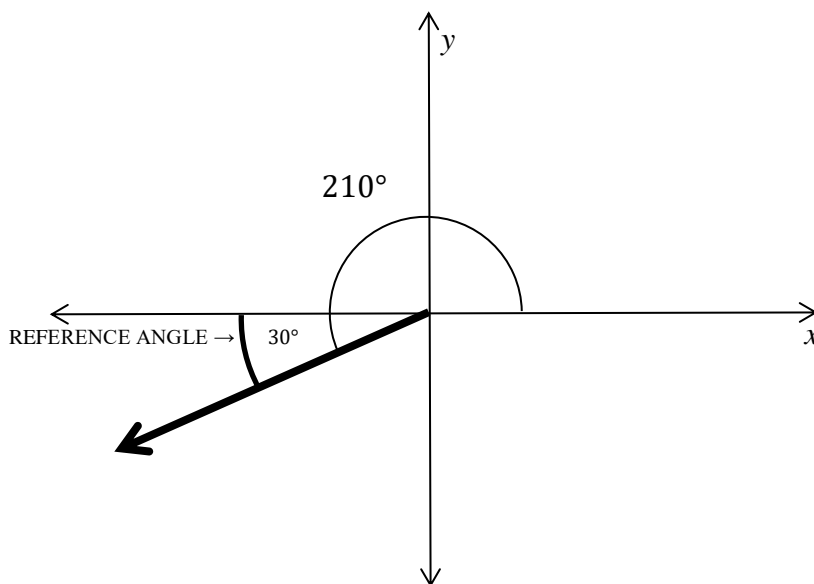
No. 253

“A mathematician is a machine for turning coffee into theorems.”

April 27, 2019

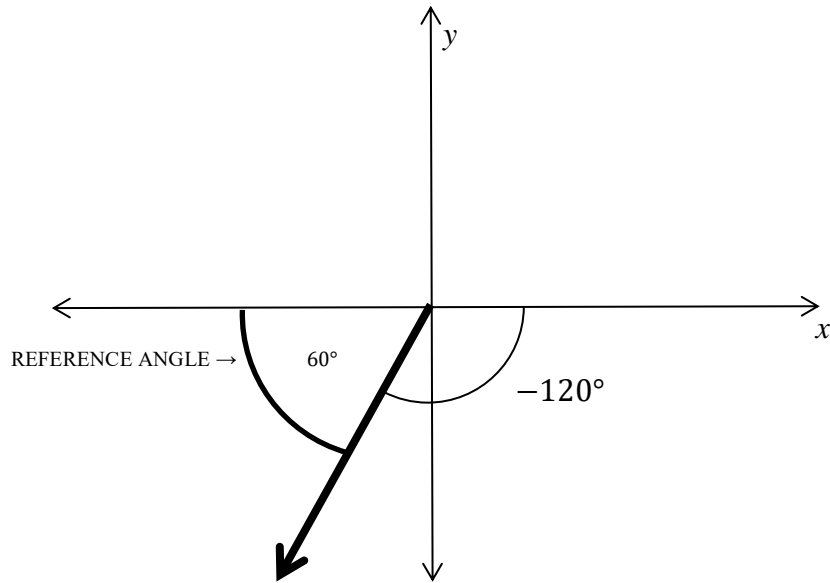
10 Problems Concerning Reference Angles (Part 1 of 2) (Part 2)

5. 210°



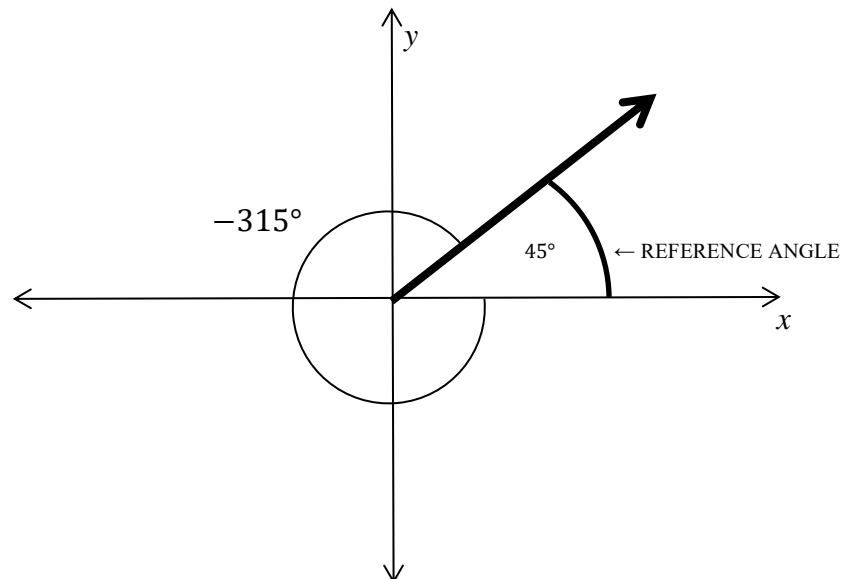
For an angle of 210° in standard position, the reference angle is $210^\circ - 180^\circ = 30^\circ$.

7. -120°



An angle of -120° in standard position is coterminal with an angle of $-120^\circ + 360^\circ = 240^\circ$. For an angle of 240° in standard position, the reference angle is $240^\circ - 180^\circ = 60^\circ$.

9. -315°



An angle of -315° in standard position is coterminal with an angle of $-315^\circ + 360^\circ = 45^\circ$. For an angle of 45° in standard position, the reference angle is the same as the angle itself.

“Only he who never plays, never loses.”