

You may have incorrectly simplified the calculation, or you may have confused the values of sine at  $30^\circ$  and  $60^\circ$ . Rewrite  $\sin\left(\frac{11\pi}{3}\right)$  as  $\sin\left(2\pi + \frac{5\pi}{3}\right)$  and then use the identity  $\sin(\theta + 2\pi) = \sin\theta$  to simplify the calculation.