

You may have correctly determined that the reference angle is  $45^\circ$  and then confused cosine with cotangent. To find the correct value of  $\cos 315^\circ$  you must find the value of  $\cos 45^\circ$  and then determine the correct sign. To determine the correct sign, use the signs of  $x$  and  $y$  in the fourth quadrant, remembering that:  $\cos \theta = \frac{x}{r}$