

You may have correctly determined that the reference angle is  $45^\circ$  and then confused tangent with sine. To find the correct value of  $\tan 135^\circ$  you must find the value of  $\tan 45^\circ$  and then determine the correct sign. To determine the correct sign, use the signs of  $x$  and  $y$  in the second quadrant, remembering that

$\tan \theta = \frac{y}{x}$ . The correct answer is  $-1$ .