You may have correctly determined that the reference angle is  $60^{\circ}$  and then confused secant with cosecant. To find the correct value of sec  $120^{\circ}$  you must find the value of sec  $60^{\circ}$  and then determine the correct sign. To determine the sign, use the signs of *x* and *y* in the second quadrant, remembering that sec  $\theta = \frac{1}{x}$ . The correct answer is -2.