

This is a value of  $x$  for which  $\sin 3x = 0$ , but it is not the *smallest* positive value for which this is true. Look at one cycle of the graph of  $y = \sin 3x$  just to the right of the  $y$ -axis. The function equals 0 when the graph crosses the  $x$ -axis. Find the first point to the right of the  $y$ -axis where this happens.