This is one of the low points, but there is another. The graph of cosine has a valley, a hill, and a valley on the interval  $\left[-\frac{7\pi}{2}, -\frac{\pi}{2}\right]$  and the low points are in the middle of the valleys. The correct answer is:  $(-3\pi, -1)$  and  $(-\pi, -1)$