

Example: Points of Inflection

Given the function $f(x) = x + 2\cos(x)$, $0 < x < 2\pi$, find the x -coordinates of all points of inflection for the graph of f . Justify your answer.

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Let f be a function defined on the closed interval $-5 \leq x \leq 5$. The graph of f' , the derivative of f , consists of a semicircle, a quartercircle, and two line segments, as shown.

Find the x -coordinates of all points of inflection for the graph of f . Justify your answer.

