PROBLEM

Let the function f(x) be defined as follows:

$$f(x) = \begin{cases} x^3 + x^2 - 10x, & -1 \le x < 0\\ \cos x, & 0 \le x < \pi/2\\ 1 + \sin x, & \pi/2 \le x \le \pi \end{cases}$$

Then f(x) has a. a local minimum at $x = \pi/2$ b. a global maximum at $x = \pi/2$ c. an absolute minimum at x = -1d. an absolute maximum at $x = \pi$



