Problem 1. (5pts) Find the limit.
\[ \lim_{{x \to 0^-}} (1 + 2 \sin x)^{{1/x^2}} \]

Problem 2. (5pts) Find the absolute maximum and the absolute minimum values on the segment \([-2, 3]\) of the function
\[ f(x) = x^{(2/3)} \cdot (2x + 5) \]