Q1] [5 points] Suppose $f(x) = x^3 - 8x + 10$. Show that there is a value $c$ for which $f(c) = -\sqrt{3}$. 
Q2]... [5 points] Let

\[ f(x) = \begin{cases} 
\sqrt{x+2} & \text{if } 0 \leq x \leq 2 \\
x^3 - 2x & \text{if } x > 2
\end{cases}, \]

Is \( f \) continuous at \( x = 2 \)? Why? Why not? If not, what kind of discontinuity does it have?

GOOD LUCK