Critical Values
The Closed Interval Method for Absolute Max/Absolute Min

Determine the critical value(s).

1. $f(x) = \frac{x+1}{x^2+x+1}$
2. $f(x) = \sqrt{x}(1-x)$
3. $f(x) = 4x - \tan(x)$

Determine the **Absolute Max** and **Absolute Min** for the following functions over the indicated interval.

4. $f(x) = x^3 - 6x^2 + 9x + 2$ over $[-1,4]$
5. $f(x) = (x^2-1)^3$ over $[-1,2]$
6. $f(x) = x - 2cos(x)$ over $[-\pi, \pi]$