Absolute Mins and Maxs: To find the maximum and minimum values of a function $y = f(x)$, locate

1.   the points where $f'(x)$ is zero <u>or</u> where $f'(x)$ fails to exist.

2.   the end points, if any, on the domain of $f(x)$.

3.   Plug those values into $f(x)$ to see which gives you the max and which gives you this min values (the x-value is where that value occurs)

<u>Note</u>: These are the <u>only</u> candidates for the value of x where $f(x)$ may have a maximum or a minimum.