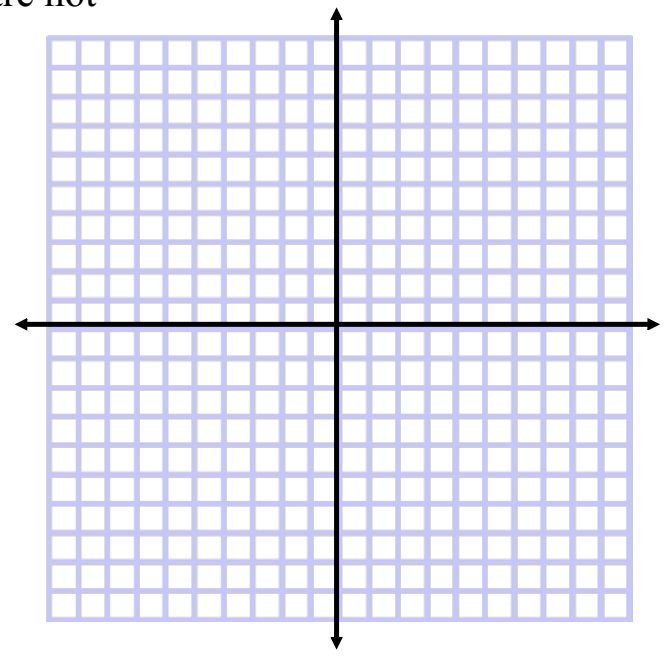
Find all critical numbers for:

$$f(x) = 2x\sqrt{x-4}$$

The absolute min and absolute max for

$f(x) = \sin^2 x - \cos x$ on the interval $\left[\pi, \frac{3\pi}{2}\right]$

Sketch a graph of $f(x) = (x-1)^{\frac{2}{3}} - 3$
on [-1, 2] and explain which conditions for
Rolle's Theorm are met and which are not



Given that Rolle's Theorem applies for $f(x) = x^3 - x + 1$ on [-1. 1], find the guaranteed "c" value(s).

Given that the conditions are met for the Mean Value Theorem for

$f(x) = 5 - 2\sqrt{x}$ on [1, 9], find the guaranteed "c" value(s).