Exercise 1
Let \( f(x) = \begin{cases} 2 - x & \text{if } x < 1 \\ x^2 - 2x + 2 & \text{if } x \geq 1 \end{cases} \)
Find \( f' \) (give all details)

Exercise 2
Find equations of the tangent lines to \( y = \frac{x+1}{x-1} \) that are parallel to \( x + 2y = 2 \).