Quiz#3 Math 101

Full Name: ID#

Q1. Use limits to determine whether or not $x = 1$ is a vertical asymptote of $(x) = \frac{x^2-2x+1}{2x^2+2x-4}$.

Q2.

Let $f(x) = \sqrt{1+\sqrt{x}}$. Use the definition of derivative to find $f'(x_0)$.

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Q.No.3:- Use the limits to find all horizontal asymptotes to the curve of the function:

$f(x) = \sqrt{4x^2 + 2x} - \sqrt{4x^2 + 5x}$