King **F**ahd **U**niversity for **P**etroleum and **M**inerals
Department of Mathematics & Statistics
Term 161 Math 101 (9) Quiz#1 (2.2 & 2.3)
Family Name: S.r#

Q1. **Use limits** to determine whether $x=1$ is a vertical asymptote of $f(x)=\dfrac{x^2-4x+3}{x^2+x-2}$ or not.

Q2. Evaluate $\lim\limits_{x\to -1}\left[\!\left[\dfrac{1}{2-x^2}\right]\!\right]$ if it is exist and **explain if it is not**. (where $[\![x]\!]$ is the greatest integer $\leq x$)

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Department of Mathematics & Statistics
Term 161 Math 101 (17) Quiz#1 (2.2 & 2.3)
Family Name: S.r#

Q1. **Use limits** to determine whether $x = 0$ is a vertical asymptote of $f(x) = \dfrac{x^2 + x}{x^3 - 2x^2}$ or not.

Q2. Evaluate $\lim\limits_{x \to 0} \dfrac{x}{2 - \sqrt{4 + x}}$ if it is exist and **explain if it is not**.