
Quiz #3

1. Evaluate the limit, if it exists. If the limit does not exist, write ∞ , $-\infty$, or **DNE**.

a. $\lim_{x \rightarrow 1} \frac{x^2 - 3x + 2}{4x - 2x^2}$ [1.5]

b. $\lim_{x \rightarrow 2} \frac{x^2 - 3x + 2}{4x - 2x^2}$ [2]

c. $\lim_{x \rightarrow 0^-} \frac{x^2 - 3x + 2}{4x - 2x^2}$ [2]

d. $\lim_{t \rightarrow 0} \frac{\sqrt{t+4} - 2}{t}$ [2]

e. $\lim_{h \rightarrow 0} \frac{f(5+h) - f(5)}{h}$, if $f(x) = x^2 - 3x$. [2.5]