1. If $f(x) = \dfrac{\sqrt{5+x} - \sqrt{5}}{x}$,

- **a**. find $\lim_{x\to 0^+} f(x)$,
- **b**. find $\lim_{x\to 0^-} f(x)$,
- **c**. find $f(0)$.

2. If $f(x) = \dfrac{x^2 - 3x}{x}$,

- **a**. find $\lim_{x\to 0} f(x)$;
- **b**. find $f(0)$,
- **c**. sketch the graph of f,
- **d**. determine if f is continuus at $x = 0$? explain.

3. If $f(x) = \dfrac{(2x+1)(x-1)x}{x}$,

- **a**. find $\lim_{x\to 0} f(x)$,
- **b**. find $\lim_{x\to 1} f(x)$,
- **c**. find $f(0)$,
- **d**. sketch the graph of f,
- **e**. determine if f is continuus at $x = 0$? explain.
- **f**. determine if f is continuous at $x = 1$? explain.

4. Do problem 5 from http://www.radford.edu/~wyang/151s00/p5/test2.htm.