Limits and Discontinuity

Session 5

1. $\lim_{x \to a^+} \sqrt{x} = 0$, $\lim_{x \to 0^-} \sqrt{x} =$ undefined

2. $\lim_{x \to -1^+} \frac{1}{x+1} = +\infty$, $\lim_{x \to -1^-} \frac{1}{x+1} = -\infty$

3. $\lim_{x \to 1} \frac{1}{(x-1)^4} = +\infty$

4. $\lim_{x \to 0} |\sin x| = 0$

5. $\lim_{x \to 0^+} \frac{|x|}{x} = +1$, $\lim_{x \to 0^-} \frac{|x|}{x} = -1$