

### MA1 Homework 3

1.  $\lim_{x \rightarrow 5^+} \frac{6}{x-5} =$

2.  $\lim_{x \rightarrow 5^-} \frac{6}{x-5} =$

3.  $\lim_{x \rightarrow 5} \frac{6}{x-5} =$

4.  $\lim_{t \rightarrow 2} \frac{t^2 - 4}{t + 2} =$

5.  $\lim_{x \rightarrow 3} \frac{x+2}{x-3} =$

6.  $\lim_{x \rightarrow 2^+} \frac{1}{x+2} =$

7.  $\lim_{x \rightarrow 0} \frac{x-1}{x^2(x+2)} =$

8.  $\lim_{x \rightarrow -2^+} \frac{x-1}{x^2(x+2)} =$

9.  $\lim_{x \rightarrow 0} \frac{\frac{1}{x+2} - \frac{1}{x}}{x} =$

10.  $\lim_{x \rightarrow 0^+} \frac{1 + \frac{1}{x}}{x^2 - 1} =$