

## Oefening limieten 4

1.  $\lim_{x \rightarrow 5} \frac{x^2 - 25}{x - 5} =$

2.  $\lim_{x \downarrow 0} \frac{\sqrt{x}}{x} =$

3.  $\lim_{x \rightarrow \infty} \frac{\sin(x-1)}{2x} =$

4.  $\lim_{x \rightarrow -\infty} \frac{e^x + e^{-x}}{e^{-x}} =$

5.  $\lim_{x \rightarrow \infty} (\sqrt{x^2 - x} - \sqrt{x^2 + 2}) =$

6.  $\lim_{x \rightarrow \infty} e^{\frac{1}{1-x}} =$

7.  $\lim_{x \rightarrow 0} \frac{\cos x}{x+1} =$

8.  $\lim_{y \rightarrow 0} \frac{\sin 2y}{\sin y} =$

9.  $\lim_{x \rightarrow 4} \frac{x^2 - 16}{x^2 + x - 20} =$

10.  $\lim_{x \rightarrow 0} \frac{\cos x - 1}{x} =$