

## Oefening limieten 6

1.  $\lim_{n \rightarrow 0} \frac{\sin 2n}{n} =$

2.  $\lim_{n \rightarrow \infty} \frac{2 \cos n + 1}{n} =$

3.  $\lim_{n \rightarrow \infty} \frac{2n + 1}{4 - n} =$

4.  $\lim_{n \rightarrow 0} \frac{\sin 3n}{\sin 5n} =$

5.  $\lim_{n \rightarrow \infty} \frac{n^2}{2^n} =$

6.  $\lim_{n \downarrow 0} \frac{n - \sqrt{n}}{n + \sqrt{n}} =$

7.  $\lim_{n \rightarrow \infty} \frac{n^3 - 1}{2n^2 + 3n^3} =$

8.  $\lim_{n \rightarrow \infty} \frac{1 - \cos n}{n^2} =$

9.  $\lim_{n \rightarrow 0} \frac{\sin^2 n}{2n^2} =$

10.  $\lim_{n \rightarrow \infty} \frac{3n + \sqrt{n}}{n - \sqrt{n}} =$

Standaardlimieten:

$$\lim_{n \rightarrow 0} \frac{\sin n}{n} = 1$$

$$\lim_{n \rightarrow \infty} \frac{n^p}{a^n} = 0 \text{ als } a > 1$$