

Výpočet limit

```
>> syms x; c1=limit( (x^2-4)/(x^2-5*x+6),x,2 ) % výpočet  $c1 = \lim_{x \rightarrow 2} \frac{x^2 - 4}{x^2 - 5x + 6}$ 
```

```
c1 =  
-4
```

```
>> syms n; c2=limit( ((n+2)/(n+3))^(2*n-158),n,inf ) % výpočet  $c2 = \lim_{n \rightarrow \infty} \left( \frac{n+2}{n+3} \right)^{2n-158}$ 
```

```
c2 =  
exp(-2)
```

```
>> syms x; c3=limit(sin(3*x)/sin(5*x),x,0) % výpočet  $c3 = \lim_{x \rightarrow 0} \frac{\sin 3x}{\sin 5x}$ 
```

```
c3 =  
3/5
```

```
>> syms x; c4=limit(x*log(x),x,0,'right') % výpočet  $c4 = \lim_{x \rightarrow 0+} x \ln x$ 
```

```
c4 =  
0
```

```
>> syms x; c5=limit((x-sin(x))/(x^3),x,0) % výpočet  $c5 = \lim_{x \rightarrow 0} \frac{x - \sin x}{x^3}$ 
```

```
c2 =  
1/6
```

```
>> syms x; c6=limit((1/(2*x))^tan(x),x,0,'right') % výpočet  $c6 = \lim_{x \rightarrow 0+} \left( \frac{1}{2x} \right)^{\tan x}$ 
```

```
c6 =  
1
```