

# ***Tvorba prezentace v Mathematice***

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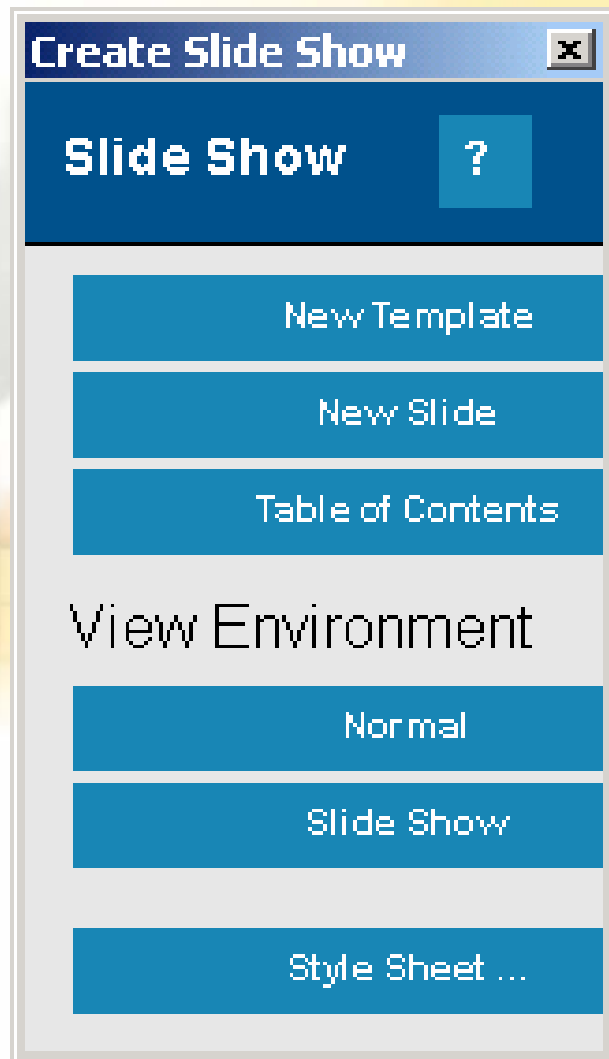
Email: [xprskave@fel.cvut.cz](mailto:xprskave@fel.cvut.cz)

Web: <http://homepage.prskavec.net>

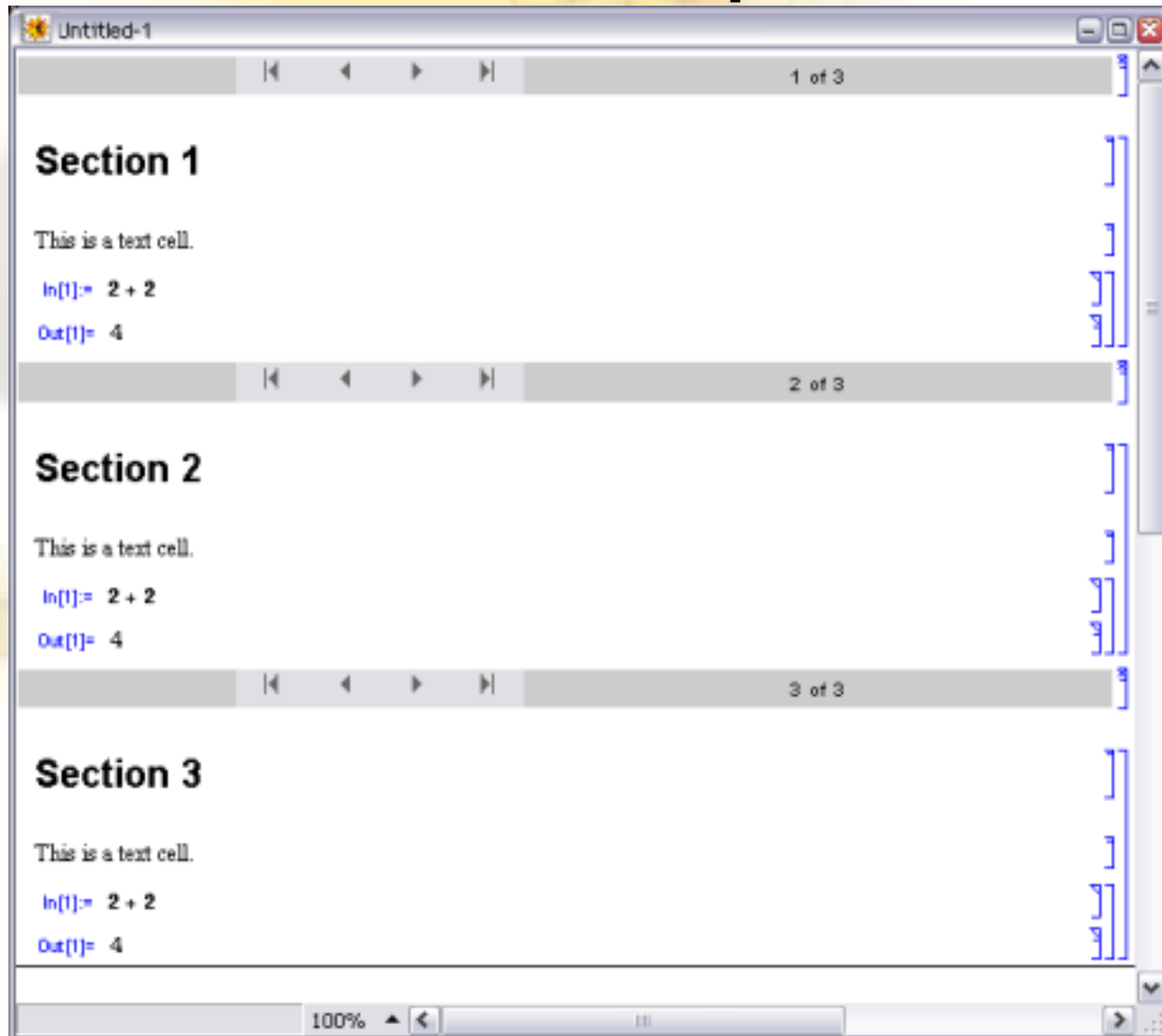
# Prezentace (Slide Shows)

- Mathematica 4.x
  - <http://documents.wolfram.com/v4/OtherInformation/SlideShowMaker.nb>
- Mathematica 5.0
  - File -> Palettes -> 7 CreateSlideShow

# Mathematica 5.0      Mathematica 4.x



# New Template



The screenshot shows a Jupyter Notebook window titled "Untitled-1" with three sections of code and output. Each section is separated by a horizontal bar indicating the current cell number (1 of 3, 2 of 3, and 3 of 3). The notebook interface includes a top toolbar with navigation icons and a bottom status bar showing "100%" zoom and a scroll bar.

**Section 1**

This is a text cell.

```
In[1]: 2 + 2
```

```
Out[1]: 4
```

**Section 2**

This is a text cell.

```
In[1]: 2 + 2
```

```
Out[1]: 4
```

**Section 3**

This is a text cell.

```
In[1]: 2 + 2
```

```
Out[1]: 4
```

# New Slide

The screenshot shows a Beamer presentation window titled "Untitled-1". The window is divided into two slide views. The top view shows slide 3 of 4, titled "Section 3", with the text "This is a text cell." and a code cell containing `In[1]:= 2 + 2` and `Out[1]= 4`. The bottom view shows slide 4 of 4, titled "New Slide". The window includes navigation controls, a status bar at the bottom showing "100%", and a vertical scrollbar on the right.

Untitled-1

3 of 4

## Section 3

This is a text cell.

```
In[1]:= 2 + 2
```

```
Out[1]= 4
```

4 of 4

## New Slide

100%

# Table of Contents



# View Environment - Normal

zaklady\_math.nb \*

Input

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## Vektorová analýza

```
<< Calculus`VectorAnalysis`  
SetCoordinates[Spherical[r, theta, phi]]  
Grad[r^2 Sin[theta]]  
CoordinatesToCartesian[{1, Pi/2, Pi/4}, Spherical]  
Curl[{f[r, theta, phi], g[r, theta, phi], h[r, theta, phi]},  
Cylindrical[r, theta, phi]]
```

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## Jednoduché diferenciální rovnice

```
DSolve[y''[x] + y[x] == 0, y[x], x]
```

```
{{y[x] -> C[1] Cos[x] + C[2] Sin[x]}}
```

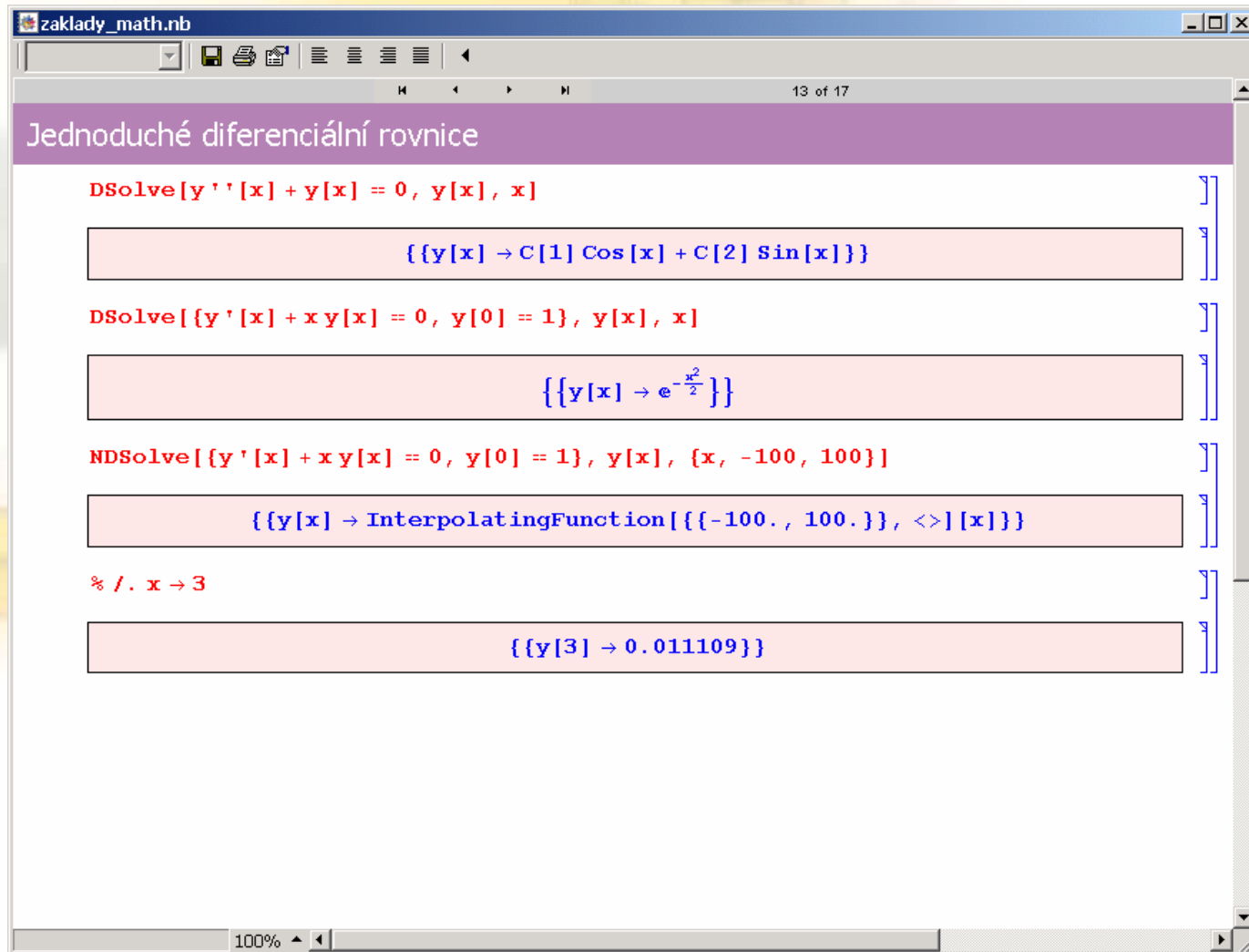
```
DSolve[{y'[x] + x y[x] == 0, y[0] == 1}, y[x], x]  
NDSolve[{y'[x] + x y[x] == 0, y[0] == 1}, y[x], {x, -100, 100}]  
% /. x -> 3
```

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## Kombinatorické funkce

100%

# View Environment - SlideShow



The screenshot shows a Mathematica notebook window titled "zaklady\_math.nb" with a slide show interface. The slide title is "Jednoduché diferenciální rovnice". The content displays four Mathematica commands and their corresponding solutions, each in a separate slide:

```
DSolve[y''[x] + y[x] == 0, y[x], x]
```

$$\{ \{y[x] \rightarrow C[1] \cos[x] + C[2] \sin[x]\} \}$$

```
DSolve[{y'[x] + x y[x] == 0, y[0] == 1}, y[x], x]
```

$$\{ \{y[x] \rightarrow e^{-\frac{x^2}{2}}\} \}$$

```
NDSolve[{y'[x] + x y[x] == 0, y[0] == 1}, y[x], {x, -100, 100}]
```

$$\{ \{y[x] \rightarrow \text{InterpolatingFunction}[\{ \{-100., 100.\} \}, \langle \rangle][x]\} \}$$

```
% /. x -> 3
```

$$\{ \{y[3] \rightarrow 0.011109\} \}$$

# Click Style Sheet

