

	<b>BMI</b>	<b>váha</b>	<b>výška</b>	<b>cholesterol</b>
<b>n<sub>2</sub></b>	24.9	72	170	5.1
<b>n<sub>3</sub></b>	25.8	98	195	5.2

	<b>BMI</b>	<b>váha</b>	<b>výška</b>	<b>cholesterol</b>
<b>n<sub>2</sub></b>	24.9	72	170	5.1
<b>n<sub>3</sub></b>	25.8	98	195	2.9

**Datová matice**

	<b>p<sub>1</sub></b>	<b>p<sub>2</sub></b>
<b>n<sub>1</sub></b>	4	1
<b>n<sub>2</sub></b>	5	2
<b>n<sub>3</sub></b>	6	3
<b>n<sub>4</sub></b>	7	7
<b>n<sub>5</sub></b>	8	10
<b>průměr</b>	<b>6</b>	<b>4.6</b>

**Kovarianční matice**

2.5	5.75
5.75	14.3

**Inverze kov  
matice**

5.32	-2.14
-2.14	0.93

varianční  
ice

Výpočet

$$(x - \bar{x})^T \quad S^{-1}$$

$$\begin{vmatrix} -2 & -3.6 \\ -1 & -2.6 \\ 0 & -1.6 \\ 1 & 2.4 \\ 2 & 5.4 \end{vmatrix} * \begin{vmatrix} 5.32 & -2.14 \\ -2.14 & 0.93 \end{vmatrix}$$

⏟

$$\begin{vmatrix} -2.94 & 0.93 \\ 0.24 & -0.28 \\ 3.42 & -1.49 \\ 0.19 & 0.09 \\ -0.91 & 0.74 \end{vmatrix}$$

\*

$$(x - \bar{x})$$

$$\begin{vmatrix} -2 & -1 & 0 & 1 & 2 \\ -3.6 & -2.6 & -1.6 & 2.4 & 5.4 \end{vmatrix}$$

$$D^2 = \begin{vmatrix} 2.53 \\ 0.48 \\ 2.38 \\ 0.41 \\ 2.20 \end{vmatrix}$$

$$D = \begin{vmatrix} 1.59 \\ 0.70 \\ 1.54 \\ 0.64 \\ 1.48 \end{vmatrix}$$

