Číslo projektu: CZ.1.07/1.4.00/21.3126

Číslo smlouvy: 4250/21/7.1.4/2011

Číslo klíčové aktivity: EU OPVK 1.4 III/2

Název klíčové aktivity: Inovace a zkvalitnění prostřednictvím ICT

## Mgr. Miroslava Vrbová

# Matematika a její aplikace

Závislosti, vztahy a práce s daty

Období: září 2013

Ročník: devátý

***Funkce 1***

**Anotace:** Žák rozpozná, zda se jedná o funkci. Materiál obsahuje výsledky. Materiál je možný využít při práci s interaktivní tabulí.

**FUNKCE 1**

1) Urči, který graf je a který není funkcí:

**C**

**B**

**A**

**D**

**F**

**E**

2) Urči, ve které z tabulek najdeme funkci:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A** | x | 1 | 2 | 3 | 4 | **B** | x | 9 | 8 | 7 | 6 | **C** | x | 5 | 4 | 8 | 5 | **D** | x | -1 | -2 | -3 | -2 |
|  | y | 2 | 3 | 4 | 5 |  | y | 5 | 6 | 7 | 8 |  | y | 2 | 3 | 5 | 4 |  | y | 1 | 3 | 5 | 3 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **E** | x | 3 | 4 | 5 | 6 | **F** | x | 2 | 2 | 2 | 2 | **G** | x | -8 | -2 | -3 | 0 | **H** | x | -1 | 0 | 1 | 2 |
|  | y | -1 | -1 | -1 | -1 |  | y | 3 | 4 | 5 | 6 |  | y | 4 | 1 | 1,5 | 0 |  | y | -2 | 1 | -2 | 3 |

**FUNKCE 1 = ŘEŠENÍ**

1) Urči, který graf je a který není funkcí:

**C A**

**B A**

**A N**

**D A**

**F A**

**E N**

2) Urči, ve které z tabulek najdeme funkci:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A** | x | 1 | 2 | 3 | 4 | **B** | x | 9 | 8 | 7 | 6 | **C** | x | 5 | 4 | 8 | 5 | **D** | x | -1 | -2 | -3 | -2 |
| A | y | 2 | 3 | 4 | 5 | A | y | 5 | 6 | 7 | 8 | N | y | 2 | 3 | 5 | 4 | A | y | 1 | 3 | 5 | 3 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **E** | x | 3 | 4 | 5 | 6 | **F** | x | 2 | 2 | 2 | 2 | **G** | x | -8 | -2 | -3 | 0 | **H** | x | -1 | 0 | 1 | 0 |
| A | y | -1 | -1 | -1 | -1 | N | y | 3 | 4 | 5 | 6 | A | y | 4 | 1 | 1,5 | 0 | N | y | -2 | 1 | -2 | 3 |