|  |  |  |  |
| --- | --- | --- | --- |
| **1B** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = 5

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = –4  trJ = 3 | nyereg |
| 0,8; 4 |  | detJ = 4  trJ = –0,2 | stabil fókusz |

|  |  |  |  |
| --- | --- | --- | --- |
| **1B** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = –1

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = 2  trJ = –3 | stabil csomó |
| 2; –2 |  | detJ = –2  trJ = 1 | nyereg |

|  |  |  |  |
| --- | --- | --- | --- |
| **1B** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = –2

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = 3  trJ = –4 | stabil  csomó |
| 1,5; –3 |  | detJ = –3  trJ = 0,5 | nyereg |

|  |  |  |  |
| --- | --- | --- | --- |
| **1C** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = 2

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = –2  trJ = 1 | nyereg |
| 0,5; 1 |  | detJ = 2  trJ = –1,5 | stabil fókusz |

|  |  |  |  |
| --- | --- | --- | --- |
| **1C** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = –3

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = 3  trJ = –4 | stabil csomó |
| 3; –9 |  | detJ = –3  trJ = –4 | nyereg |

|  |  |  |  |
| --- | --- | --- | --- |
| **1C** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = 3

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = –3  trJ = 2 | nyereg |
| 0,6; 1,8 |  | detJ = 3  trJ = –1,6 | stabil  fókusz |

|  |  |  |  |
| --- | --- | --- | --- |
| **7A** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
| 1; *a* |  |  |

a = 2

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = 0  trJ = –1 | stabil nyeregcsomó |
| 1; 2 |  | detJ = 2  trJ = 2 | instabil fókusz |

|  |  |  |  |
| --- | --- | --- | --- |
| **7A** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
| 1; *a* |  |  |

a = –1

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = 0  trJ = –1 | stabil nyeregcsomó |
| 1; –1 |  | detJ = –1  trJ = –1 | nyereg |

|  |  |  |  |
| --- | --- | --- | --- |
| **7A** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
| 1; *a* |  |  |

a = 5

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = 0  trJ = –1 | stabil nyeregcsomó |
| 1; 5 |  | detJ = 5  trJ = 5 | instabil csomó |

|  |  |  |  |
| --- | --- | --- | --- |
| **3A** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = 1

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = –1  trJ = 0 | nyereg |
| 1; 1 |  | detJ = 2  trJ = 1 | instabil fókusz |
| –1; –1 |  | detJ = 2  trJ = 1 | instabil fókusz |

|  |  |  |  |
| --- | --- | --- | --- |
| **3A** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = 4

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = –4  trJ = 0 | nyereg |
| 0,5; 2 |  | detJ = 8  trJ = 1 | instabil  fókusz |
| –0,5; –2 |  | detJ = 8  trJ = 1 | instabil  fókusz |

|  |  |  |  |
| --- | --- | --- | --- |
| **3B** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = 5

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = –4  trJ = 3 | nyereg |
| 0,4; 2 |  | detJ = 8  trJ = 0,6 | instabil fókusz |
| –0,4; –2 |  | detJ = 8  trJ = 0,6 | instabil fókusz |

|  |  |  |  |
| --- | --- | --- | --- |
| **3B** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = 10

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = –9  trJ = 8 | nyereg |
| 0,3; 3 |  | detJ = 18  trJ = 0,8 | instabil  fókusz |
| –0,3; –3 |  | detJ = 18  trJ = 0,8 | instabil  fókusz |

|  |  |  |  |
| --- | --- | --- | --- |
| **5A** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = 4

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = –4  trJ = 3 | nyereg |
| 1; 2 |  | detJ = 8  trJ = –4 | stabil fókusz |
| –1; –2 |  | detJ = 8  trJ = –4 | stabil fókusz |

|  |  |  |  |
| --- | --- | --- | --- |
| **5A** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = 10

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ= –10  trJ = 9 | nyereg |
| 1; 5 |  | detJ = 20  trJ = –10 | stabil  csomó |
| –1; –5 |  | detJ = 20  trJ = –10 | stabil  csomó |

|  |  |  |  |
| --- | --- | --- | --- |
| **5A** |  |  |  |

|  |  |  |
| --- | --- | --- |
| 0; 0 |  |  |
|  |  |  |

a = –2

|  |  |  |  |
| --- | --- | --- | --- |
| 0; 0 |  | detJ = 2  trJ = –3 | stabil csomó |
| 1; –1 |  | detJ = –4  trJ = 2 | nyereg |
| –1; 1 |  | detJ = –4  trJ = 2 | nyereg |