6. $\quad y' = \dfrac{y^2 + xy - x^2}{x^2}$, $\quad y(1) = 2$; $\quad Y = \dfrac{x(1 + \frac{x^2}{3})}{1 - \frac{x^2}{3}}$

$X \in [1 ; 1,5]$; $\quad h = 0,1$; $\quad y' = f(x, y)$

$0 \begin{bmatrix} X_0 = 1; & Y_0 = 2; & f(x_0, y_0) = \dfrac{4 + 2 - 1}{1} = 5; & h f(x_0, y_0) = 0,5 \end{bmatrix}$

$1 \begin{bmatrix} X_1 = 1,1; & Y_1 = Y_0 + h f(x_0, y_0) = 2 + 0,5 = 2,5 \\ f(x_1, y_1) = 6,43802 \end{bmatrix}$

$2 \begin{bmatrix} X_2 = 1,2; & Y_2 = Y_1 + h f(x_1, y_1) = 3,14380 \\ f(x_2, y_2) = 8,48336 \end{bmatrix}$

$3 \begin{bmatrix} X_3 = 1,3; & Y_3 = Y_2 + h f(x_2, y_2) = 3,99214 \\ f(x_3, y_3) = 11,5012 \end{bmatrix}$

$4 \begin{bmatrix} X_4 = 1,4; & Y_4 = Y_3 + h f(x_3, y_3) = 5,14226 \\ f(x_4, y_4) = 16,1693 \end{bmatrix}$

$5 \begin{bmatrix} X_5 = 1,5; & Y_5 = Y_4 + h f(x_4, y_4) = 6,75869 \\ f(x_5, y_5) = 23,8080 \end{bmatrix}$

X	Y(Euler)	Y(Exact)	TE
1	2	2	0
1,1	2,5	2,58715	0,087151
1,2	3,14380	3,41538	0,27158
1,3	3,99214	4,65420	0,66206
1,4	5,14226	6,67692	1,53467
1,5	6,75869	10,5	3,74132