Original-Problem		Octave/Scilab-Notation
x	$\leftrightarrow$	x_1
y	$\leftrightarrow$	x_2
$F_1(x,y) = \frac{10}{x+y} - 1 - \sqrt{10-x-y}$	$\leftrightarrow$	$y_1 = \frac{10}{x_1+x_2} - 1 - \sqrt{10-x_1-x_2}$
$F_2(x,y) = \frac{10}{x+y} - \frac{10}{5+x-y}$	$\leftrightarrow$	$y_2 = \frac{10}{x_1+x_2} - \frac{10}{5+x_1-x_2}$
$\mathbf{J} = \begin{pmatrix} \frac{\mathrm{d}}{\mathrm{d}x}F_1(x,y) & \frac{\mathrm{d}}{\mathrm{d}y}F_1(x,y) \\ \frac{\mathrm{d}}{\mathrm{d}x}F_2(x,y) & \frac{\mathrm{d}}{\mathrm{d}y}F_2(x,y) \end{pmatrix}$	$\leftrightarrow$	$JMF = \begin{pmatrix} \frac{\mathrm{d}y_1}{\mathrm{d}x_1} & \frac{\mathrm{d}y_1}{\mathrm{d}x_2} \\ \frac{\mathrm{d}y_2}{\mathrm{d}x_1} & \frac{\mathrm{d}y_2}{\mathrm{d}x_2} \end{pmatrix}$
$\frac{\mathrm{d}F_1(x,y)}{\mathrm{d}x} = \frac{1}{2\sqrt{10-x-y}} - \frac{10}{(x+y)^2}$	$\leftrightarrow$	$\frac{\mathrm{d}y_1}{\mathrm{d}x_1} = \frac{1}{2\sqrt{10-x_1-x_2}} - \frac{10}{(x_1+x_2)^2}$
$\frac{\mathrm{d}F_1(x,y)}{\mathrm{d}x} = \frac{1}{2\sqrt{10-x-y}} - \frac{10}{(x+y)^2}$	$\leftrightarrow$	$\frac{\mathrm{d}y_1}{\mathrm{d}x_2} = \frac{1}{2\sqrt{10-x_1-x_2}} - \frac{10}{(x_1+x_2)^2}$
$\frac{\mathrm{d}F_2(x,y)}{\mathrm{d}x} = \frac{10}{(5+x-y)^2} - \frac{10}{(x+y)^2}$	$\leftrightarrow$	$\frac{\mathrm{d}y_2}{\mathrm{d}x_1} = \frac{10}{(5+x_1-x_2)^2} - \frac{10}{(x_1+x_2)^2}$
$\frac{F_2(x,y)}{\mathrm{d}y} = -\frac{10}{(x+y)^2} - \frac{10}{(5+x-y)^2}$	$\leftrightarrow$	$\frac{\mathrm{d}y_2}{\mathrm{d}x_2} = -\frac{10}{(x_1+x_2)^2} - \frac{10}{(5+x_1-x_2)^2}$