Maruael U.

Domanne pasoma v 4

2) 
$$X^2 - 2\cos x + 1 \pm x = 0$$

$$X = X + x^2 - 2\cos x + 1 = \Psi(x)$$

$$4(x) = x + \frac{1}{2}(x^2 - 2\cos x + 1) = 34'(x) = 14x + \sin x = 3$$

$$X'^{k+1} = X'' + \frac{1}{2} ((X'')^2 - 2 \cos X'' + 1)$$

$$X = -x^{2} + 2 \cos X - 1 + X = 9$$
  $\Psi(X) = X + \frac{1}{2} (-X^{2} + 2 \cos X - 1)$   $\Psi'(X) = 1 - X - \sin Y$ 

Ombem! 
$$x^{k+1} = x^{k} + \frac{1}{2}((x^{k})^{2} - 2\cos x^{k} + 1)$$
  
 $x^{k+1} = x^{k} + \frac{1}{2}((x^{k})^{2} - 2\cos x^{k} + 1)$ 

$$X^{k+1} = X^{k} + \frac{1}{2} \left( -(X^{k})^{2} + 2\cos X^{k} + 1 \right)$$

$$\frac{2}{X} \times \frac{k+1}{2} = \frac{4-e^{x}}{2}$$

$$X^{K+1} = 1 + \underbrace{X^{K} - e^{X^{K}}}_{4}$$

$$e^{x}+3x=4$$
 -  $f(x)$ 

$$\Psi'(x) = \frac{-3e^{x}}{9} = \frac{e^{x}}{3}$$
;  $14'(x)/(1 = 3) = 3$ 

$$x \approx 0,677$$

2) 
$$4(x)=ln(4-3x)$$
  
 $4'(x)=\frac{-3}{4-3x}$ 

$$|Y'(x)| < 1 = 2 \frac{-3}{4-3x} > 1$$

$$\frac{3}{4-3x} < 1$$

$$= 2 \frac{2}{3} \times 2 \frac{2}{3} \times$$

3) 
$$\Psi(x) = 1 + \frac{x - e^{x}}{4}$$
  
 $\Psi'(x) = \frac{1 - e^{x}}{4}$   
 $|\Psi'(x)| < 1 = 9 - 1 < \frac{1 - e^{x}}{4}$ 

Cocquerca

$$\begin{cases} 2x^{2} + 3y^{2} = 1 \\ 10xy(x+y) = 1 \end{cases} = 3 \begin{cases} x = \sqrt{\frac{1-5y^{2}}{2}} = 4, \\ y = \sqrt{\frac{1}{2}} = 9, \\ \frac{3y^{2}}{2} = 4, \\ \frac{3y^{2$$

$$\frac{\partial 4_1}{\partial x} = 0; \frac{\partial 4_1}{\partial y} = \frac{-6y\sqrt{2}}{2\sqrt{1-3y^2\cdot 2}} = \frac{-3y}{\sqrt{2-6y^2}}$$

$$\frac{\partial 4_2}{\partial x} = -1$$

$$\frac{\partial y^{2}}{\partial y} = \frac{-1}{10 \times (x + y)^{2}} \frac{\partial y^{2}}{\partial x} = \frac{(20x + y)(-1)}{10^{2} \times (x + y)^{2}} = \frac{-2x - y}{10 \times (x + y)^{2}}$$

$$\left|\frac{\partial u_{1}}{\partial x}\right| + \left|\frac{\partial u_{1}}{\partial y}\right| < 1$$

$$\left|\frac{\partial u_{2}}{\partial x}\right| + \left|\frac{\partial u_{2}}{\partial y}\right| < 1$$

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$$f'(x) = \frac{1}{\cos^2 x} - \ln x = 0$$

$$f(x) = \frac{1}{\cos^2 x}$$

$$\frac{1}{\cos^2 x} - \ln x - 1$$

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$$\chi^{(k+1)} = \chi^{(k)} - \frac{tg \chi^{(k)} - \chi^{(k)} ln \chi^{(k)} + 1}{cos^2 \chi^{(k)} - ln \chi^{(k)} - 1}$$

$$X_0 = 435$$
  
 $X_1 = 4356$   
 $X_1 = 4356$ 

$$X_2 = 4,56 - \frac{0,592}{40,879} = 4,545$$
  
 $X_3 = 4,545 - \frac{0,0369}{33,5112} = 4,5439$ 

$$\int_{0}^{2x} 2xy = -1$$

$$\int_{0}^{2x} \cos(x + 2y) + 5x = 2$$

$$\int_{0}^{2x} x = -\frac{1}{2y}$$

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I remember, you 
$$x \in (0; 0, 5]$$
  
 $x_0 = 0, 25$   $\int_{0}^{2x} 2xy + 1 = f_1(x, y)$   
 $\int_{0}^{2x} 2xy + 1 = f_1(x, y)$   
 $\int_{0}^{2x} 2xy + 1 = f_2(x, y)$ 

$$\frac{\partial f_{1}(x,y)}{\partial x} = 2y$$

$$\frac{\partial f_{1}(x,y)}{\partial y} = -\sin(x+2y) + 5$$

$$\frac{\partial f_{2}(x,y)}{\partial y} = -2\sin(x+2y) + 5$$

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