$$y_{2}[3] = \frac{1}{8}$$
 $y_{1}[0] = \frac{1}{16}$
 $y_{1}[1] = \frac{1}{16}$
 $y_{2}[2] = \frac{6}{16}$
 $y_{3}[3] = \frac{6}{16}$
 $y_{3}[4] = \frac{1}{16}$

1=0

i - 1

else

 $y_{1}[0] = \frac{1}{4}$ $y_{1}[1] = \frac{1}{4}$ $y_{2}[2] = \frac{1}{4}$

 $\chi[0] = \frac{1}{8}$ $\chi[\Lambda] = \frac{3}{7}$ $\chi[2] = \frac{3}{7}$

Problem 3 (20 continents Tourier Fourstorm)

$$g(x,y) := \frac{1}{8} \left[-\frac{1}{8} (x-A,y-1) + \frac{1}{8} (x+A,y-A) - 2\frac{1}{8} (x-A,y) + 2\frac{1}{8} (x+A,y) - \frac{1}{8} (x-A,y+A) + \frac{1}{8} (x+A,y+A) \right]$$

$$= \frac{1}{8} \left[-\frac{1}{8} \left[-\frac{1}{8} \left(\frac{1}{8} (x-A,y-A) + \frac{1}{8} \left(\frac{1}{8} (x+A,y+A) - 2\frac{1}{8} (x+A,y+A) + \frac{1}{8} \left(\frac{1}{8} (x+A,y+A) + \frac{1}{8} \left(\frac{1}{8} (x+A,y+A) + \frac{1}{8} (x+A,y+A) + \frac{1}{8} (x+A,y+A) \right) \right]$$

$$= \frac{1}{8} \left[-\frac{1}{8} \left[-\frac{1}{8} \left(\frac{1}{8} (x+A,y+A) + \frac{1}{8} (x+A,y+A) \right) \right]$$

$$= \frac{1}{8} \left[-\frac{1}{8} \left(\frac{1}{8} (x+A,y) + \frac{1}{8} (x+A,y+A) + \frac{1}{8} (x+A,y+A) + \frac{1}{8} (x+A,y+A) + \frac{1}{8} (x+A,y+A) \right]$$

$$= \frac{1}{8} \left[-\frac{1}{8} \left(\frac{1}{8} (x+A,y) + \frac{1}{8} (x+A,y+A) + \frac{1}{8}$$