1- $V = \{0, 1\}$, pixels $p(3,0)$ e $q(0,3)$

x_1 y_1 x_2 y_2

x \ y	0	1	2	3
0	3	1	2	1
1	2	1	0	2
2	1	2	1	1	2
3	1	0	1	2	1
	0	2	3	1	1

Distância Euclidiana $= \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$

$= \sqrt{(3-0)^2 + (0-3)^2}$

$= \sqrt{18}$

≈ 3

Distância City-Block $= |x_1 - x_2| + |y_1 - y_2|$

$= |3-0| + |0-3|$

$= 3 + 3$

$= 6$

Distância Chessboard $= \max\{|x_1 - x_2|, |y_1 - y_2|\}$

$= \max\{|3-0|, |0-3|\}$

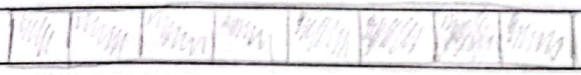
$= \max\{3, 3\}$

$= 3$

FORON:

2 - Bytes de armazenamento para imagens de 512 x 512 com 2 bits por pixel?

8 bits

 x 1

7 bits

 x 1

6 bits

 x 1

5 bits

 x 1

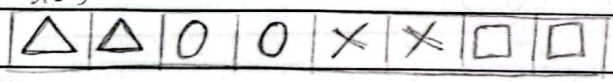
4 bits

 x 1/2 = 0,5

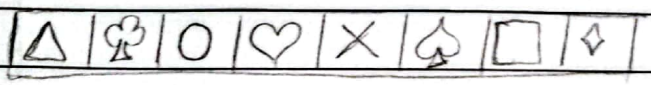
3 bits

 x 1/2 = 0,5

2 bits

 x 1/4 = 0,25

1 bit

 x 1/8 = 0,125

$512 \times 512 \times 0,25 = \frac{65,536 \text{ bits}}{8} = 8,192$ Bytes

FORON: