Cálculo de Probabilidades II, Grado en Estadística

SOLUCIONES DE LOS EJERCICIOS DE CÁLCULO DE LA FUNCIÓN DE DISTRIBUCIÓN DE UN VECTOR ALEATORIO CONTINUO

En este documento se pueden consultar las funciones de distribución pedidas en los Ejercicios 1 y 2 de la práctica del cálculo de la función de distribución de un vector aleatorio continuo. Además, para el Ejercicio 1 se recoge también la solución del valor k.

NOTA: las soluciones están **en forma expandida**. Esto significa que para poder verificar los resultados, se han de desarrollar las soluciones de las integrales hasta que esté todo en función de x_0 e y_0. Cada cifra está redondeada a tres decimales. Debido a la automatización, es posible que aparezcan algunas fracciones triviales (p. ej. $\frac{y_0}{1}$ o $\frac{2}{1}$) o pendientes de rectas equivalentes a 1 que aparezcan junto a la variable independiente (p. ej. $1 + 1x_0$).

Los números están ordenados de menor a mayor para ser localizados más fácilmente. Aún así, se recomienda hacer uso de la función Búsqueda (pulsando las teclas Ctrl + F a la vez) del visor de PDF que se esté utilizando para localizar las funciones de densidad que correspondan.

Número de DNI/pasaporte 05469442:

- Ejercicio 1:

$$k = 0.02 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -9 \text{ ó } y_0 < -3 \\ 0.02x_0y_0 - 0.12x_0 - 0.01x_0^2 + 0.18y_0 - 0.27 & -9 \leq x_0 < 1, 6 + 1x_0 \leq y_0 < 7 \\ 0.06y_0 + 0.01y_0^2 + 0.09 & x_0 \geq -6 + \frac{y_0}{1}, -3 \leq y_0 < 7 \\ 0.02x_0 - 0.01x_0^2 + 0.99 & -9 \leq x_0 < 1, y_0 \geq 7 \\ 1 & x_0 \geq 1, y_0 \geq 7 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -3 \text{ ó } -4 \leq x_0 < 1, -3 \leq y_0 < -2 - 1x_0 \\ 0.04x_0y_0 + 0.08x_0 + 0.02x_0^2 + 0.08y_0 + 0.02y_0^2 + 0.08 & -4 \leq x_0 < 1, -2 - 1x_0 \leq y_0 < 2 \\ 0.12y_0 + 0.02y_0^2 + 0.18 & x_0 \geq 1, -3 \leq y_0 < 2 \\ 0.04x_0y_0 + 0.08x_0 + 0.02x_0^2 + 0.24y_0 - 0.02y_0^2 - 0.08 & -4 \leq x_0 < 1, 2 \leq y_0 < 6 + 1x_0 \\ 0.28y_0 - 0.02y_0^2 + 0.02 & x_0 \geq 1, 2 \leq y_0 < 7 \\ 0.32x_0 + 0.04x_0^2 + 0.64 & -4 \leq x_0 < 1, y_0 \geq 6 + 1x_0 \\ 1 & x_0 \geq 1, y_0 \geq 7 \end{cases}$$

Número de DNI/pasaporte 06294368:

- Ejercicio 1:

$$k = 0.028 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -3 \text{ ó } -5 \leq x_0 < 1, -3 \leq y_0 < -1 - 2x_0 \\ 0.028x_0y_0 + 0.028x_0 + 0.028x_0^2 + 0.014y_0 + 0.007y_0^2 + 0.007 & -5 \leq x_0 < 1, -1 - 2x_0 \leq y_0 < 9 \\ 0.042y_0 + 0.007y_0^2 + 0.062 & x_0 \geq 1, -3 \leq y_0 < 9 \\ 0.278x_0 + 0.028x_0^2 + 0.694 & -5 \leq x_0 < 1, y_0 \geq 9 \\ 1 & x_0 \geq 1, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 2 \text{ ó } y_0 < -2 \text{ ó } 2 \leq x_0 < 5, -2 \leq y_0 < 3 - 1x_0 \\ 0.111x_0y_0 - 0.333x_0 + 0.056x_0^2 - 0.333y_0 + 0.056y_0^2 + 0.5 & 2 \leq x_0 < 5, 3 - 1x_0 \leq y_0 < 1 \\ 0.222y_0 + 0.056y_0^2 + 0.222 & x_0 \geq 5, -2 \leq y_0 < 1 \\ 0.111x_0y_0 - 0.333x_0 + 0.056x_0^2 - 0.111y_0 - 0.056y_0^2 + 0.389 & 2 \leq x_0 < 5, 1 \leq y_0 < -1 + 1x_0 \\ 0.444y_0 - 0.056y_0^2 + 0.111 & x_0 \geq 5, 1 \leq y_0 < 4 \\ -0.444x_0 + 0.111x_0^2 + 0.444 & 2 \leq x_0 < 5, y_0 \geq -1 + 1x_0 \\ 1 & x_0 \geq 5, y_0 \geq 4 \end{cases}$$

Número de DNI/pasaporte 14276905:

- Ejercicio 1:

$$k = 0.08 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -1 \\ 0.08x_0y_0 - 0.24x_0 - 0.04x_0^2 + 0.32y_0 - 0.32 & -4 \leq x_0 < 1, 3 + 1x_0 \leq y_0 < 4 \\ 0.08y_0 + 0.04y_0^2 + 0.04 & x_0 \geq -3 + \frac{y_0}{1}, -1 \leq y_0 < 4 \\ 0.08x_0 - 0.04x_0^2 + 0.96 & -4 \leq x_0 < 1, y_0 \geq 4 \\ 1 & x_0 \geq 1, y_0 \geq 4 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -1.5 \text{ ó } y_0 < -1 \text{ ó } -1.5 \leq x_0 < 1, -1 \leq y_0 < 0 - 1x_0 \\ 0.16x_0y_0 - 0x_0 + 0.08x_0^2 - 0y_0 + 0.08y_0^2 + 0 & -1.5 \leq x_0 < 1, 0 - 1x_0 \leq y_0 < 1.5 \\ 0.16y_0 + 0.08y_0^2 + 0.08 & x_0 \geq 1, -1 \leq y_0 < 1.5 \\ 0.16x_0y_0 - 0x_0 + 0.08x_0^2 + 0.48y_0 - 0.08y_0^2 - 0.36 & -1.5 \leq x_0 < 1, 1.5 \leq y_0 < 3 + 1x_0 \\ 0.64y_0 - 0.08y_0^2 - 0.28 & x_0 \geq 1, 1.5 \leq y_0 < 4 \\ 0.48x_0 + 0.16x_0^2 + 0.36 & -1.5 \leq x_0 < 1, y_0 \geq 3 + 1x_0 \\ 1 & x_0 \geq 1, y_0 \geq 4 \end{cases}$$

Número de DNI/pasaporte 15519221:

- Ejercicio 1:

$$k = 0.042 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -5 \text{ ó } -3 \leq x_0 < 1, -5 \leq y_0 < -2 - 3x_0 \\ 0.042x_0y_0 + 0.083x_0 + 0.062x_0^2 + 0.028y_0 + 0.007y_0^2 + 0.028 & -3 \leq x_0 < 1, -2 - 3x_0 \leq y_0 < 7 \\ 0.069y_0 + 0.007y_0^2 + 0.174 & x_0 \geq 1, -5 \leq y_0 < 7 \\ 0.375x_0 + 0.062x_0^2 + 0.562 & -3 \leq x_0 < 1, y_0 \geq 7 \\ 1 & x_0 \geq 1, y_0 \geq 7 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -9 \\ 0.018x_0y_0 + 0.16x_0 - 0.071y_0 - 0.009y_0^2 + 0.08 & -5 \leq x_0 < 2.5, -9 \leq y_0 < -4 + 1x_0 \\ 0.089x_0 + 0.009x_0^2 + 0.222 & -5 \leq x_0 < 2.5, y_0 \geq -4 + 1x_0 \\ 0.178x_0 - 0.009x_0^2 - 0.053y_0 - 0.018y_0^2 + 0.071 & 2.5 \leq x_0 < 10, 1 - 1x_0 \leq y_0 < -1.5 \\ 0.178x_0 - 0.009x_0^2 + 0.111 & 2.5 \leq x_0 < 10, y_0 \geq -1.5 \\ -0.053y_0 - 0.018y_0^2 + 0.96 & x_0 \geq 10, -9 \leq y_0 < -1.5 \\ 1 & x_0 \geq 10, y_0 \geq -1.5 \end{cases}$$

Número de DNI/pasaporte 16075378:

- Ejercicio 1:

$$k = 0.056 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -5 \\ 0.056x_0y_0 + 0.278x_0 - 0.111y_0 - 0.028y_0^2 + 0.139 & -3 \leq x_0 < 3, -5 \leq y_0 < -2 + 1x_0 \\ 0.167x_0 + 0.028x_0^2 + 0.25 & -3 \leq x_0 < 3, y_0 \geq -2 + 1x_0 \\ 0.056y_0 - 0.028y_0^2 + 0.972 & x_0 \geq 3, -5 \leq y_0 < 1 \\ 1 & x_0 \geq 3, y_0 \geq 1 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -5 \\ 0.111x_0y_0 + 0.222x_0 - 0.056x_0^2 + 0.333y_0 + 1.167 & -3 \leq x_0 < 0, -2 + 1x_0 \leq y_0 < -2 - 1x_0 \\ 0.556y_0 + 0.056y_0^2 + 1.389 & x_0 \geq 2 + \frac{y_0}{1}, -5 \leq y_0 < -2 \\ 0.111y_0 - 0.056y_0^2 + 0.944 & x_0 \geq 0, -2 \leq y_0 < 1 \\ 0x_0 - 0.111x_0^2 + 0.111y_0 - 0.056y_0^2 + 0.944 & -3 \leq x_0 < 0, -2 - 1x_0 \geq y_0 < 1 \\ 0x_0 - 0.111x_0^2 + 1 & -3 \leq x_0 < 0, y_0 \geq 1 \\ 1 & x_0 \geq 0, y_0 \geq 1 \end{cases}$$

Número de DNI/pasaporte 1720903374:

- Ejercicio 1:

$$k = 0.027 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -7 \\ 0.027x_0y_0 + 0.187x_0 - 0.04x_0^2 - 0y_0 + 0 & 0 \leq x_0 < 5, -7 + 3x_0 \leq y_0 < 8 \\ 0.062y_0 + 0.004y_0^2 + 0.218 & x_0 \geq 2.33333333333333 + \frac{y_0}{3}, -7 \leq y_0 < 8 \\ 0.4x_0 - 0.04x_0^2 + 0 & 0 \leq x_0 < 5, y_0 \geq 8 \\ 1 & x_0 \geq 5, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -6 \text{ ó } y_0 < -7 \\ 0.049x_0y_0 + 0.346x_0 - 0.049y_0 - 0.025y_0^2 + 0.864 & -6 \leq x_0 < -1.5, -7 \leq y_0 < -1 + 1x_0 \\ 0.296x_0 + 0.025x_0^2 + 0.889 & -6 \leq x_0 < -1.5, y_0 \geq -1 + 1x_0 \\ 0.148x_0 - 0.025x_0^2 - 0.247y_0 - 0.049y_0^2 + 0.469 & -1.5 \leq x_0 < 3, -4 - 1x_0 \leq y_0 < -2.5 \\ 0.148x_0 - 0.025x_0^2 + 0.778 & -1.5 \leq x_0 < 3, y_0 \geq -2.5 \\ -0.247y_0 - 0.049y_0^2 + 0.691 & x_0 \geq 3, -7 \leq y_0 < -2.5 \\ 1 & x_0 \geq 3, y_0 \geq -2.5 \end{cases}$$

Número de DNI/pasaporte 20067372:

- Ejercicio 1:

$$k = 0.008 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -6 \\ 0.008x_0y_0 + 0.047x_0 + 0.016y_0 - 0.004y_0^2 + 0.234 & -8 \leq x_0 < 8, -6 \leq y_0 < 2 + 1x_0 \\ 0.062x_0 + 0.004x_0^2 + 0.25 & -8 \leq x_0 < 8, y_0 \geq 2 + 1x_0 \\ 0.078y_0 - 0.004y_0^2 + 0.609 & x_0 \geq 8, -6 \leq y_0 < 10 \\ 1 & x_0 \geq 8, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -6 \\ 0.016x_0y_0 - 0.031x_0 - 0.008x_0^2 + 0.125y_0 + 0.25 & -8 \leq x_0 < 0, 2 + 1x_0 \leq y_0 < 2 - 1x_0 \\ 0.094y_0 + 0.008y_0^2 + 0.281 & x_0 \geq -2 + \frac{y_0}{1}, -6 \leq y_0 < 2 \\ 0.156y_0 - 0.008y_0^2 + 0.219 & x_0 \geq 0, 2 \leq y_0 < 10 \\ 0x_0 - 0.016x_0^2 + 0.156y_0 - 0.008y_0^2 + 0.219 & -8 \leq x_0 < 0, 2 - 1x_0 \geq y_0 < 10 \\ 0x_0 - 0.016x_0^2 + 1 & -8 \leq x_0 < 0, y_0 \geq 10 \\ 1 & x_0 \geq 0, y_0 \geq 10 \end{cases}$$

Número de DNI/pasaporte 20080255:

- Ejercicio 1:

$$k = 0.025 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -2 \text{ ó } y_0 < -1 \\ 0.025x_0y_0 + 0.025x_0 + 0.025y_0 - 0.012y_0^2 + 0.037 & -2 \leq x_0 < 7, -1 \leq y_0 < 1 + 1x_0 \\ 0.049x_0 + 0.012x_0^2 + 0.049 & -2 \leq x_0 < 7, y_0 \geq 1 + 1x_0 \\ 0.198y_0 - 0.012y_0^2 + 0.21 & x_0 \geq 7, -1 \leq y_0 < 8 \\ 1 & x_0 \geq 7, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -2 \text{ ó } y_0 < -1 \\ 0.049x_0y_0 + 0.049x_0 + 0.049y_0 - 0.025y_0^2 + 0.074 & -2 \leq x_0 < 2.5, -1 \leq y_0 < 1 + 1x_0 \\ 0.099x_0 + 0.025x_0^2 + 0.099 & -2 \leq x_0 < 2.5, y_0 \geq 1 + 1x_0 \\ 0.346x_0 - 0.025x_0^2 + 0.346y_0 - 0.049y_0^2 - 0.815 & 2.5 \leq x_0 < 7, 6 - 1x_0 \leq y_0 < 3.5 \\ 0.346x_0 - 0.025x_0^2 - 0.21 & 2.5 \leq x_0 < 7, y_0 \geq 3.5 \\ 0.346y_0 - 0.049y_0^2 + 0.395 & x_0 \geq 7, -1 \leq y_0 < 3.5 \\ 1 & x_0 \geq 7, y_0 \geq 3.5 \end{cases}$$

Número de DNI/pasaporte 20100767:

- Ejercicio 1:

$$k = 0.111 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -2 \text{ ó } y_0 < -2 \\ 0.111x_0y_0 - 0.222x_0 - 0.111x_0^2 + 0.222y_0 + 0 & -2 \leq x_0 < 1, 2 + 2x_0 \leq y_0 < 4 \\ 0.111y_0 + 0.028y_0^2 + 0.111 & x_0 \geq -1 + \frac{y_0}{2}, -2 \leq y_0 < 4 \\ 0.222x_0 - 0.111x_0^2 + 0.889 & -2 \leq x_0 < 1, y_0 \geq 4 \\ 1 & x_0 \geq 1, y_0 \geq 4 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -1.5 \text{ ó } y_0 < -6 \text{ ó } -1.5 \leq x_0 < 6, -6 \leq y_0 < 0 - 1x_0 \\ 0.018x_0y_0 - 0x_0 + 0.009x_0^2 - 0y_0 + 0.009y_0^2 + 0 & -1.5 \leq x_0 < 6, 0 - 1x_0 \leq y_0 < 1.5 \\ 0.107y_0 + 0.009y_0^2 + 0.32 & x_0 \geq 6, -6 \leq y_0 < 1.5 \\ 0.018x_0y_0 - 0x_0 + 0.009x_0^2 + 0.053y_0 - 0.009y_0^2 - 0.04 & -1.5 \leq x_0 < 6, 1.5 \leq y_0 < 3 + 1x_0 \\ 0.16y_0 - 0.009y_0^2 + 0.28 & x_0 \geq 6, 1.5 \leq y_0 < 9 \\ 0.053x_0 + 0.018x_0^2 + 0.04 & -1.5 \leq x_0 < 6, y_0 \geq 3 + 1x_0 \\ 1 & x_0 \geq 6, y_0 \geq 9 \end{cases}$$

Número de DNI/pasaporte 20101529:

- Ejercicio 1:

$$k = 0.056 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -4 \\ 0.056x_0y_0 + 0.222x_0 - 0.028x_0^2 - 0y_0 + 0 & 0 \leq x_0 < 6, -4 + 1x_0 \leq y_0 < 2 \\ 0.222y_0 + 0.028y_0^2 + 0.444 & x_0 \geq 4 + \frac{y_0}{1}, -4 \leq y_0 < 2 \\ 0.333x_0 - 0.028x_0^2 + 0 & 0 \leq x_0 < 6, y_0 \geq 2 \\ 1 & x_0 \geq 6, y_0 \geq 2 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 3 \text{ ó } y_0 < -4 \text{ ó } 3 \leq x_0 < 6, -4 \leq y_0 < 2 - 1x_0 \\ 0.111x_0y_0 - 0.222x_0 + 0.056x_0^2 - 0.222y_0 + 0.056y_0^2 + 0.222 & 3 \leq x_0 < 6, 2 - 1x_0 \leq y_0 < -1 \\ 0.444y_0 + 0.056y_0^2 + 0.889 & x_0 \geq 6, -4 \leq y_0 < -1 \\ 0.111x_0y_0 - 0.222x_0 + 0.056x_0^2 - 0.444y_0 - 0.056y_0^2 + 0.111 & 3 \leq x_0 < 6, -1 \leq y_0 < -4 + 1x_0 \\ 0.222y_0 - 0.056y_0^2 + 0.778 & x_0 \geq 6, -1 \leq y_0 < 2 \\ -0.667x_0 + 0.111x_0^2 + 1 & 3 \leq x_0 < 6, y_0 \geq -4 + 1x_0 \\ 1 & x_0 \geq 6, y_0 \geq 2 \end{cases}$$

Número de DNI/pasaporte 20617416:

- Ejercicio 1:

$$k = 0.041 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -6 \text{ ó } y_0 < -2 \\ 0.041x_0y_0 - 0.163x_0 - 0.02x_0^2 + 0.245y_0 - 0.245 & -6 \leq x_0 < 1, 4 + 1x_0 \leq y_0 < 5 \\ 0.082y_0 + 0.02y_0^2 + 0.082 & x_0 \geq -4 + \frac{y_0}{1}, -2 \leq y_0 < 5 \\ 0.041x_0 - 0.02x_0^2 + 0.98 & -6 \leq x_0 < 1, y_0 \geq 5 \\ 1 & x_0 \geq 1, y_0 \geq 5 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -2.5 \text{ ó } y_0 < -2 \text{ ó } -2.5 \leq x_0 < 1, -2 \leq y_0 < -1 - 1x_0 \\ 0.082x_0y_0 + 0.082x_0 + 0.041x_0^2 + 0.082y_0 + 0.041y_0^2 + 0.041 & -2.5 \leq x_0 < 1, -1 - 1x_0 \leq y_0 < 1.5 \\ 0.163y_0 + 0.041y_0^2 + 0.163 & x_0 \geq 1, -2 \leq y_0 < 1.5 \\ 0.082x_0y_0 + 0.082x_0 + 0.041x_0^2 + 0.327y_0 - 0.041y_0^2 - 0.143 & -2.5 \leq x_0 < 1, 1.5 \leq y_0 < 4 + 1x_0 \\ 0.408y_0 - 0.041y_0^2 - 0.02 & x_0 \geq 1, 1.5 \leq y_0 < 5 \\ 0.408x_0 + 0.082x_0^2 + 0.51 & -2.5 \leq x_0 < 1, y_0 \geq 4 + 1x_0 \\ 1 & x_0 \geq 1, y_0 \geq 5 \end{cases}$$

Número de DNI/pasaporte 20886240:

- Ejercicio 1:

$$k = 0.012 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -6 \\ 0.012x_0y_0 - 0.024x_0 - 0.006x_0^2 + 0.095y_0 + 0.189 & -8 \leq x_0 < 5, 2 + 1x_0 \leq y_0 < 7 \\ 0.071y_0 + 0.006y_0^2 + 0.213 & x_0 \geq -2 + \frac{y_0}{1}, -6 \leq y_0 < 7 \\ 0.059x_0 - 0.006x_0^2 + 0.852 & -8 \leq x_0 < 5, y_0 \geq 7 \\ 1 & x_0 \geq 5, y_0 \geq 7 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -1.5 \text{ ó } y_0 < -6 \text{ ó } -1.5 \leq x_0 < 5, -6 \leq y_0 < -1 - 1x_0 \\ 0.024x_0y_0 + 0.024x_0 + 0.012x_0^2 + 0.024y_0 + 0.012y_0^2 + 0.012 & -1.5 \leq x_0 < 5, -1 - 1x_0 \leq y_0 < 0.5 \\ 0.142y_0 + 0.012y_0^2 + 0.426 & x_0 \geq 5, -6 \leq y_0 < 0.5 \\ 0.024x_0y_0 + 0.024x_0 + 0.012x_0^2 + 0.047y_0 - 0.012y_0^2 + 0.006 & -1.5 \leq x_0 < 5, 0.5 \leq y_0 < 2 + 1x_0 \\ 0.166y_0 - 0.012y_0^2 + 0.42 & x_0 \geq 5, 0.5 \leq y_0 < 7 \\ 0.071x_0 + 0.024x_0^2 + 0.053 & -1.5 \leq x_0 < 5, y_0 \geq 2 + 1x_0 \\ 1 & x_0 \geq 5, y_0 \geq 7 \end{cases}$$

Número de DNI/pasaporte 21025187:

- Ejercicio 1:

$$k = 0.017 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -2 \\ 0.017x_0y_0 - 0.033x_0 - 0.008x_0^2 + 0.066y_0 + 0 & -4 \leq x_0 < 7, 2 + 1x_0 \leq y_0 < 9 \\ 0.033y_0 + 0.008y_0^2 + 0.033 & x_0 \geq -2 + \frac{y_0}{1}, -2 \leq y_0 < 9 \\ 0.116x_0 - 0.008x_0^2 + 0.595 & -4 \leq x_0 < 7, y_0 \geq 9 \\ 1 & x_0 \geq 7, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 1.5 \text{ ó } y_0 < -2 \text{ ó } 1.5 \leq x_0 < 7, -2 \leq y_0 < 5 - 1x_0 \\ 0.033x_0y_0 - 0.165x_0 + 0.017x_0^2 - 0.165y_0 + 0.017y_0^2 + 0.413 & 1.5 \leq x_0 < 7, 5 - 1x_0 \leq y_0 < 3.5 \\ 0.066y_0 + 0.017y_0^2 + 0.066 & x_0 \geq 7, -2 \leq y_0 < 3.5 \\ 0.033x_0y_0 - 0.165x_0 + 0.017x_0^2 + 0.066y_0 - 0.017y_0^2 + 0.008 & 1.5 \leq x_0 < 7, 3.5 \leq y_0 < 2 + 1x_0 \\ 0.298y_0 - 0.017y_0^2 - 0.339 & x_0 \geq 7, 3.5 \leq y_0 < 9 \\ -0.099x_0 + 0.033x_0^2 + 0.074 & 1.5 \leq x_0 < 7, y_0 \geq 2 + 1x_0 \\ 1 & x_0 \geq 7, y_0 \geq 9 \end{cases}$$

Número de DNI/pasaporte 21693776:

- Ejercicio 1:

$$k = 0.019 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -9 \text{ ó } -4 \leq x_0 < 2, -9 \leq y_0 < -3 - 3x_0 \\ 0.019x_0y_0 + 0.056x_0 + 0.028x_0^2 + 0.019y_0 + 0.003y_0^2 + 0.028 & -4 \leq x_0 < 2, -3 - 3x_0 \leq y_0 < 9 \\ 0.056y_0 + 0.003y_0^2 + 0.25 & x_0 \geq 2, -9 \leq y_0 < 9 \\ 0.222x_0 + 0.028x_0^2 + 0.444 & -4 \leq x_0 < 2, y_0 \geq 9 \\ 1 & x_0 \geq 2, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -2 \\ 0.04x_0y_0 + 0.08x_0 - 0.08y_0 - 0.02y_0^2 - 0.08 & 0 \leq x_0 < 5, -2 \leq y_0 < -2 + 1x_0 \\ 0x_0 + 0.02x_0^2 + 0 & 0 \leq x_0 < 5, y_0 \geq -2 + 1x_0 \\ 0.4x_0 - 0.02x_0^2 + 0.24y_0 - 0.04y_0^2 - 1.36 & 5 \leq x_0 < 10, 8 - 1x_0 \leq y_0 < 3 \\ 0.4x_0 - 0.02x_0^2 - 1 & 5 \leq x_0 < 10, y_0 \geq 3 \\ 0.24y_0 - 0.04y_0^2 + 0.64 & x_0 \geq 10, -2 \leq y_0 < 3 \\ 1 & x_0 \geq 10, y_0 \geq 3 \end{cases}$$

Número de DNI/pasaporte 25603002:

- Ejercicio 1:

$$k = 0.1 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -6 \\ 0.1x_0y_0 + 0.1x_0 - 0.25x_0^2 + 0.1y_0 + 0.35 & -1 \leq x_0 < 1, -1 + 5x_0 \leq y_0 < 4 \\ 0.12y_0 + 0.01y_0^2 + 0.36 & x_0 \geq 0.2 + \frac{y_0}{5}, -6 \leq y_0 < 4 \\ 0.5x_0 - 0.25x_0^2 + 0.75 & -1 \leq x_0 < 1, y_0 \geq 4 \\ 1 & x_0 \geq 1, y_0 \geq 4 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < 4 \text{ ó } -10 \leq x_0 < -4, 4 \leq y_0 < 0 - 1x_0 \\ 0.028x_0y_0 - 0x_0 + 0.014x_0^2 - 0y_0 + 0.014y_0^2 + 0 & -10 \leq x_0 < -4, 0 - 1x_0 \leq y_0 < 10 \\ 0.028x_0y_0 - 0.222x_0 - 0.014x_0^2 - 0y_0 + 0.014y_0^2 - 0.444 & -4 \leq x_0 < 2, 8 + 1x_0 \leq y_0 < 10 \\ -0.222y_0 + 0.028y_0^2 + 0.444 & x_0 \geq 2, 4 \leq y_0 < 10 \\ 0.278x_0 + 0.014x_0^2 + 1.389 & -10 \leq x_0 < -4, y_0 \geq 10 \\ 0.056x_0 - 0.014x_0^2 + 0.944 & -4 \leq x_0 < 2, y_0 \geq 10 \\ 1 & x_0 \geq 2, y_0 \geq 10 \end{cases}$$

Número de DNI/pasaporte 25607478:

- Ejercicio 1:

$$k = 0.02 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -2 \text{ ó } y_0 < -5 \text{ ó } -2 \leq x_0 < 8, -5 \leq y_0 < 3 - 1x_0 \\ 0.02x_0y_0 - 0.06x_0 + 0.01x_0^2 - 0.06y_0 + 0.01y_0^2 + 0.09 & -2 \leq x_0 < 8, 3 - 1x_0 \leq y_0 < 5 \\ 0.1y_0 + 0.01y_0^2 + 0.25 & x_0 \geq 8, -5 \leq y_0 < 5 \\ 0.04x_0 + 0.01x_0^2 + 0.04 & -2 \leq x_0 < 8, y_0 \geq 5 \\ 1 & x_0 \geq 8, y_0 \geq 5 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -2 \text{ ó } y_0 < -5 \\ 0.04x_0y_0 + 0.2x_0 - 0.12y_0 - 0.02y_0^2 - 0.1 & -2 \leq x_0 < 3, -5 \leq y_0 < -3 + 1x_0 \\ 0.08x_0 + 0.02x_0^2 + 0.08 & -2 \leq x_0 < 3, y_0 \geq -3 + 1x_0 \\ 0.32x_0 - 0.02x_0^2 + 0y_0 - 0.04y_0^2 - 0.28 & 3 \leq x_0 < 8, 3 - 1x_0 \leq y_0 < 0 \\ 0.32x_0 - 0.02x_0^2 - 0.28 & 3 \leq x_0 < 8, y_0 \geq 0 \\ 0y_0 - 0.04y_0^2 + 1 & x_0 \geq 8, -5 \leq y_0 < 0 \\ 1 & x_0 \geq 8, y_0 \geq 0 \end{cases}$$

Número de DNI/pasaporte 26051710:

- Ejercicio 1:

$$k = 0.4 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -4 \\ 0.4x_0y_0 + 1.6x_0 - 0.32y_0 - 0.04y_0^2 - 0.64 & 0 \leq x_0 < 1, -4 \leq y_0 < -4 + 5x_0 \\ 0x_0 + 1x_0^2 + 0 & 0 \leq x_0 < 1, y_0 \geq -4 + 5x_0 \\ 0.08y_0 - 0.04y_0^2 + 0.96 & x_0 \geq 1, -4 \leq y_0 < 1 \\ 1 & x_0 \geq 1, y_0 \geq 1 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -9 \text{ ó } y_0 < -4 \text{ ó } -9 \leq x_0 < -3, -4 \leq y_0 < -7 - 1x_0 \\ 0.028x_0y_0 + 0.194x_0 + 0.014x_0^2 + 0.194y_0 + 0.014y_0^2 + 0.681 & -9 \leq x_0 < -3, -7 - 1x_0 \leq y_0 < 2 \\ 0.028x_0y_0 + 0.028x_0 - 0.014x_0^2 + 0.194y_0 + 0.014y_0^2 + 0.431 & -3 \leq x_0 < 3, -1 + 1x_0 \leq y_0 < 2 \\ 0.222y_0 + 0.028y_0^2 + 0.444 & x_0 \geq 3, -4 \leq y_0 < 2 \\ 0.25x_0 + 0.014x_0^2 + 1.125 & -9 \leq x_0 < -3, y_0 \geq 2 \\ 0.083x_0 - 0.014x_0^2 + 0.875 & -3 \leq x_0 < 3, y_0 \geq 2 \\ 1 & x_0 \geq 3, y_0 \geq 2 \end{cases}$$

Número de DNI/pasaporte 26506442:

- Ejercicio 1:

$$k = 0.009 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -9 \\ 0.009x_0y_0 + 0.08x_0 - 0.036y_0 - 0.004y_0^2 + 0.04 & -5 \leq x_0 < 10, -9 \leq y_0 < -4 + 1x_0 \\ 0.044x_0 + 0.004x_0^2 + 0.111 & -5 \leq x_0 < 10, y_0 \geq -4 + 1x_0 \\ 0.053y_0 - 0.004y_0^2 + 0.84 & x_0 \geq 10, -9 \leq y_0 < 6 \\ 1 & x_0 \geq 10, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -9 \\ 0.018x_0y_0 + 0.071x_0 - 0.009x_0^2 + 0.089y_0 + 0.578 & -5 \leq x_0 < 2.5, -4 + 1x_0 \leq y_0 < 1 - 1x_0 \\ 0.16y_0 + 0.009y_0^2 + 0.72 & x_0 \geq 4 + \frac{y_0}{1}, -9 \leq y_0 < -1.5 \\ 0.107y_0 - 0.009y_0^2 + 0.68 & x_0 \geq 2.5, -1.5 \leq y_0 < 6 \\ 0.089x_0 - 0.018x_0^2 + 0.107y_0 - 0.009y_0^2 + 0.569 & -5 \leq x_0 < 2.5, 1 - 1x_0 \geq y_0 < 6 \\ 0.089x_0 - 0.018x_0^2 + 0.889 & -5 \leq x_0 < 2.5, y_0 \geq 6 \\ 1 & x_0 \geq 2.5, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte 26515544:

- Ejercicio 1:

$$k = 0.014 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -6 \text{ ó } y_0 < -7 \\ 0.014x_0y_0 + 0.014x_0 - 0.007x_0^2 + 0.083y_0 + 0.333 & -6 \leq x_0 < 6, -1 + 1x_0 \leq y_0 < 5 \\ 0.097y_0 + 0.007y_0^2 + 0.34 & x_0 \geq 1 + \frac{y_0}{1}, -7 \leq y_0 < 5 \\ 0.083x_0 - 0.007x_0^2 + 0.75 & -6 \leq x_0 < 6, y_0 \geq 5 \\ 1 & x_0 \geq 6, y_0 \geq 5 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -7 \text{ ó } 0 \leq x_0 < 6, -7 \leq y_0 < -1 - 1x_0 \\ 0.028x_0y_0 + 0.028x_0 + 0.014x_0^2 + 0.028y_0 + 0.014y_0^2 + 0.014 & 0 \leq x_0 < 6, -1 - 1x_0 \leq y_0 < -1 \\ 0.194y_0 + 0.014y_0^2 + 0.681 & x_0 \geq 6, -7 \leq y_0 < -1 \\ 0.028x_0y_0 + 0.028x_0 + 0.014x_0^2 - 0.028y_0 - 0.014y_0^2 - 0.014 & 0 \leq x_0 < 6, -1 \leq y_0 < -1 + 1x_0 \\ 0.139y_0 - 0.014y_0^2 + 0.653 & x_0 \geq 6, -1 \leq y_0 < 5 \\ 0x_0 + 0.028x_0^2 + 0 & 0 \leq x_0 < 6, y_0 \geq -1 + 1x_0 \\ 1 & x_0 \geq 6, y_0 \geq 5 \end{cases}$$

Número de DNI/pasaporte 26515801:

- Ejercicio 1:

$$k = 0.014 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -3 \\ 0.014x_0y_0 - 0.028x_0 - 0.007x_0^2 + 0.069y_0 + 0.035 & -5 \leq x_0 < 7, 2 + 1x_0 \leq y_0 < 9 \\ 0.042y_0 + 0.007y_0^2 + 0.062 & x_0 \geq -2 + \frac{y_0}{1}, -3 \leq y_0 < 9 \\ 0.097x_0 - 0.007x_0^2 + 0.66 & -5 \leq x_0 < 7, y_0 \geq 9 \\ 1 & x_0 \geq 7, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 1 \text{ ó } y_0 < -3 \text{ ó } 1 \leq x_0 < 7, -3 \leq y_0 < 4 - 1x_0 \\ 0.028x_0y_0 - 0.111x_0 + 0.014x_0^2 - 0.111y_0 + 0.014y_0^2 + 0.222 & 1 \leq x_0 < 7, 4 - 1x_0 \leq y_0 < 3 \\ 0.083y_0 + 0.014y_0^2 + 0.125 & x_0 \geq 7, -3 \leq y_0 < 3 \\ 0.028x_0y_0 - 0.111x_0 + 0.014x_0^2 + 0.056y_0 - 0.014y_0^2 - 0.028 & 1 \leq x_0 < 7, 3 \leq y_0 < 2 + 1x_0 \\ 0.25y_0 - 0.014y_0^2 - 0.125 & x_0 \geq 7, 3 \leq y_0 < 9 \\ -0.056x_0 + 0.028x_0^2 + 0.028 & 1 \leq x_0 < 7, y_0 \geq 2 + 1x_0 \\ 1 & x_0 \geq 7, y_0 \geq 9 \end{cases}$$

Número de DNI/pasaporte 26520255:

- Ejercicio 1:

$$k = 0.056 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -1 \\ 0.056x_0y_0 - 0.222x_0 - 0.028x_0^2 + 0.278y_0 - 0.417 & -5 \leq x_0 < 1, 4 + 1x_0 \leq y_0 < 5 \\ 0.056y_0 + 0.028y_0^2 + 0.028 & x_0 \geq -4 + \frac{y_0}{1}, -1 \leq y_0 < 5 \\ 0.056x_0 - 0.028x_0^2 + 0.972 & -5 \leq x_0 < 1, y_0 \geq 5 \\ 1 & x_0 \geq 1, y_0 \geq 5 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -2 \text{ ó } y_0 < -1 \text{ ó } -2 \leq x_0 < 1, -1 \leq y_0 < 0 - 1x_0 \\ 0.111x_0y_0 - 0x_0 + 0.056x_0^2 - 0y_0 + 0.056y_0^2 + 0 & -2 \leq x_0 < 1, 0 - 1x_0 \leq y_0 < 2 \\ 0.111y_0 + 0.056y_0^2 + 0.056 & x_0 \geq 1, -1 \leq y_0 < 2 \\ 0.111x_0y_0 - 0x_0 + 0.056x_0^2 + 0.444y_0 - 0.056y_0^2 - 0.444 & -2 \leq x_0 < 1, 2 \leq y_0 < 4 + 1x_0 \\ 0.556y_0 - 0.056y_0^2 - 0.389 & x_0 \geq 1, 2 \leq y_0 < 5 \\ 0.444x_0 + 0.111x_0^2 + 0.444 & -2 \leq x_0 < 1, y_0 \geq 4 + 1x_0 \\ 1 & x_0 \geq 1, y_0 \geq 5 \end{cases}$$

Número de DNI/pasaporte 26824852:

- Ejercicio 1:

$$k = 0.007 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < -9 \text{ ó } -10 \leq x_0 < 7, -9 \leq y_0 < -2 - 1x_0 \\ 0.007x_0y_0 + 0.014x_0 + 0.003x_0^2 + 0.014y_0 + 0.003y_0^2 + 0.014 & -10 \leq x_0 < 7, -2 - 1x_0 \leq y_0 < 8 \\ 0.062y_0 + 0.003y_0^2 + 0.28 & x_0 \geq 7, -9 \leq y_0 < 8 \\ 0.069x_0 + 0.003x_0^2 + 0.346 & -10 \leq x_0 < 7, y_0 \geq 8 \\ 1 & x_0 \geq 7, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < -0.5 \text{ ó } -10 \leq x_0 < -1.5, -0.5 \leq y_0 < -2 - 1x_0 \\ 0.014x_0y_0 + 0.028x_0 + 0.007x_0^2 + 0.028y_0 + 0.007y_0^2 + 0.028 & -10 \leq x_0 < -1.5, -2 - 1x_0 \leq y_0 < 8 \\ 0.014x_0y_0 - 0.014x_0 - 0.007x_0^2 + 0.028y_0 + 0.007y_0^2 - 0.003 & -1.5 \leq x_0 < 7, 1 + 1x_0 \leq y_0 < 8 \\ 0.014y_0 + 0.014y_0^2 + 0.003 & x_0 \geq 7, -0.5 \leq y_0 < 8 \\ 0.138x_0 + 0.007x_0^2 + 0.692 & -10 \leq x_0 < -1.5, y_0 \geq 8 \\ 0.097x_0 - 0.007x_0^2 + 0.661 & -1.5 \leq x_0 < 7, y_0 \geq 8 \\ 1 & x_0 \geq 7, y_0 \geq 8 \end{cases}$$

Número de DNI/pasaporte 26828356:

- Ejercicio 1:

$$k = 0.02 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -8 \\ 0.02x_0y_0 + 0.16x_0 - 0.16y_0 - 0.01y_0^2 - 0.64 & 0 \leq x_0 < 10, -8 \leq y_0 < -8 + 1x_0 \\ 0x_0 + 0.01x_0^2 + 0 & 0 \leq x_0 < 10, y_0 \geq -8 + 1x_0 \\ 0.04y_0 - 0.01y_0^2 + 0.96 & x_0 \geq 10, -8 \leq y_0 < 2 \\ 1 & x_0 \geq 10, y_0 \geq 2 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -8 \\ 0.04x_0y_0 + 0.32x_0 - 0.02x_0^2 - 0y_0 + 0 & 0 \leq x_0 < 5, -8 + 1x_0 \leq y_0 < 2 - 1x_0 \\ 0.32y_0 + 0.02y_0^2 + 1.28 & x_0 \geq 8 + \frac{y_0}{1}, -8 \leq y_0 < -3 \\ 0.08y_0 - 0.02y_0^2 + 0.92 & x_0 \geq 5, -3 \leq y_0 < 2 \\ 0.4x_0 - 0.04x_0^2 + 0.08y_0 - 0.02y_0^2 - 0.08 & 0 \leq x_0 < 5, 2 - 1x_0 \geq y_0 < 2 \\ 0.4x_0 - 0.04x_0^2 + 0 & 0 \leq x_0 < 5, y_0 \geq 2 \\ 1 & x_0 \geq 5, y_0 \geq 2 \end{cases}$$

Número de DNI/pasaporte 26968386:

- Ejercicio 1:

$$k = 0.028 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -10 \\ 0.028x_0y_0 + 0.278x_0 - 0y_0 - 0.007y_0^2 + 0.694 & -5 \leq x_0 < 1, -10 \leq y_0 < 0 + 2x_0 \\ 0.278x_0 + 0.028x_0^2 + 0.694 & -5 \leq x_0 < 1, y_0 \geq 0 + 2x_0 \\ 0.028y_0 - 0.007y_0^2 + 0.972 & x_0 \geq 1, -10 \leq y_0 < 2 \\ 1 & x_0 \geq 1, y_0 \geq 2 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -8 \\ 0.033x_0y_0 + 0.264x_0 - 0.231y_0 - 0.017y_0^2 - 0.793 & -1 \leq x_0 < 4.5, -8 \leq y_0 < -7 + 1x_0 \\ 0.033x_0 + 0.017x_0^2 + 0.017 & -1 \leq x_0 < 4.5, y_0 \geq -7 + 1x_0 \\ 0.331x_0 - 0.017x_0^2 - 0.165y_0 - 0.033y_0^2 - 0.86 & 4.5 \leq x_0 < 10, 2 - 1x_0 \leq y_0 < -2.5 \\ 0.331x_0 - 0.017x_0^2 - 0.653 & 4.5 \leq x_0 < 10, y_0 \geq -2.5 \\ -0.165y_0 - 0.033y_0^2 + 0.793 & x_0 \geq 10, -8 \leq y_0 < -2.5 \\ 1 & x_0 \geq 10, y_0 \geq -2.5 \end{cases}$$

Número de DNI/pasaporte 31015595:

- Ejercicio 1:

$$k = 0.014 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -4 \\ 0.014x_0y_0 - 0.056x_0 - 0.007x_0^2 + 0.111y_0 + 0 & -8 \leq x_0 < 4, 4 + 1x_0 \leq y_0 < 8 \\ 0.056y_0 + 0.007y_0^2 + 0.111 & x_0 \geq -4 + \frac{y_0}{1}, -4 \leq y_0 < 8 \\ 0.056x_0 - 0.007x_0^2 + 0.889 & -8 \leq x_0 < 4, y_0 \geq 8 \\ 1 & x_0 \geq 4, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -4 \\ 0.028x_0y_0 - 0.111x_0 - 0.014x_0^2 + 0.222y_0 + 0 & -8 \leq x_0 < -2, 4 + 1x_0 \leq y_0 < 0 - 1x_0 \\ 0.111y_0 + 0.014y_0^2 + 0.222 & x_0 \geq -4 + \frac{y_0}{1}, -4 \leq y_0 < 2 \\ 0.222y_0 - 0.014y_0^2 + 0.111 & x_0 \geq -2, 2 \leq y_0 < 8 \\ -0.111x_0 - 0.028x_0^2 + 0.222y_0 - 0.014y_0^2 + 0 & -8 \leq x_0 < -2, 0 - 1x_0 \geq y_0 < 8 \\ -0.111x_0 - 0.028x_0^2 + 0.889 & -8 \leq x_0 < -2, y_0 \geq 8 \\ 1 & x_0 \geq -2, y_0 \geq 8 \end{cases}$$

Número de DNI/pasaporte 45312777:

- Ejercicio 1:

$$k = 0.008 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -6 \text{ ó } y_0 < -8 \text{ ó } -6 \leq x_0 < 10, -8 \leq y_0 < 2 - 1x_0 \\ 0.008x_0y_0 - 0.016x_0 + 0.004x_0^2 - 0.016y_0 + 0.004y_0^2 + 0.016 & -6 \leq x_0 < 10, 2 - 1x_0 \leq y_0 < 8 \\ 0.062y_0 + 0.004y_0^2 + 0.25 & x_0 \geq 10, -8 \leq y_0 < 8 \\ 0.047x_0 + 0.004x_0^2 + 0.141 & -6 \leq x_0 < 10, y_0 \geq 8 \\ 1 & x_0 \geq 10, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -6 \text{ ó } y_0 < 0 \text{ ó } -6 \leq x_0 < 2, 0 \leq y_0 < 2 - 1x_0 \\ 0.016x_0y_0 - 0.031x_0 + 0.008x_0^2 - 0.031y_0 + 0.008y_0^2 + 0.031 & -6 \leq x_0 < 2, 2 - 1x_0 \leq y_0 < 8 \\ 0.016x_0y_0 + 0.031x_0 - 0.008x_0^2 - 0.031y_0 + 0.008y_0^2 - 0.031 & 2 \leq x_0 < 10, -2 + 1x_0 \leq y_0 < 8 \\ 0y_0 + 0.016y_0^2 + 0 & x_0 \geq 10, 0 \leq y_0 < 8 \\ 0.094x_0 + 0.008x_0^2 + 0.281 & -6 \leq x_0 < 2, y_0 \geq 8 \\ 0.156x_0 - 0.008x_0^2 + 0.219 & 2 \leq x_0 < 10, y_0 \geq 8 \\ 1 & x_0 \geq 10, y_0 \geq 8 \end{cases}$$

Número de DNI/pasaporte 45868428:

- Ejercicio 1:

$$k = 0.04 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -2 \\ 0.04x_0y_0 - 0.16x_0 - 0.04x_0^2 + 0.12y_0 - 0.12 & -3 \leq x_0 < 2, 4 + 2x_0 \leq y_0 < 8 \\ 0.04y_0 + 0.01y_0^2 + 0.04 & x_0 \geq -2 + \frac{y_0}{2}, -2 \leq y_0 < 8 \\ 0.16x_0 - 0.04x_0^2 + 0.84 & -3 \leq x_0 < 2, y_0 \geq 8 \\ 1 & x_0 \geq 2, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -9 \\ 0.02x_0y_0 + 0.184x_0 - 0.02y_0 - 0.01y_0^2 + 0.643 & -8 \leq x_0 < -1, -9 \leq y_0 < -1 + 1x_0 \\ 0.163x_0 + 0.01x_0^2 + 0.653 & -8 \leq x_0 < -1, y_0 \geq -1 + 1x_0 \\ 0.122x_0 - 0.01x_0^2 - 0.082y_0 - 0.02y_0^2 + 0.551 & -1 \leq x_0 < 6, -3 - 1x_0 \leq y_0 < -2 \\ 0.122x_0 - 0.01x_0^2 + 0.633 & -1 \leq x_0 < 6, y_0 \geq -2 \\ -0.082y_0 - 0.02y_0^2 + 0.918 & x_0 \geq 6, -9 \leq y_0 < -2 \\ 1 & x_0 \geq 6, y_0 \geq -2 \end{cases}$$

Número de DNI/pasaporte 45922052:

- Ejercicio 1:

$$k = 0.02 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -10 \\ 0.02x_0y_0 + 0.12x_0 - 0.04x_0^2 + 0.02y_0 + 0.16 & -1 \leq x_0 < 4, -6 + 4x_0 \leq y_0 < 10 \\ 0.05y_0 + 0.002y_0^2 + 0.25 & x_0 \geq 1.5 + \frac{y_0}{4}, -10 \leq y_0 < 10 \\ 0.32x_0 - 0.04x_0^2 + 0.36 & -1 \leq x_0 < 4, y_0 \geq 10 \\ 1 & x_0 \geq 4, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -2 \\ 0.16x_0y_0 + 0.16x_0 - 0.08x_0^2 + 0.16y_0 + 0.24 & -1 \leq x_0 < 1.5, -1 + 1x_0 \leq y_0 < 2 - 1x_0 \\ 0.32y_0 + 0.08y_0^2 + 0.32 & x_0 \geq 1 + \frac{y_0}{1}, -2 \leq y_0 < 0.5 \\ 0.48y_0 - 0.08y_0^2 + 0.28 & x_0 \geq 1.5, 0.5 \leq y_0 < 3 \\ 0.48x_0 - 0.16x_0^2 + 0.48y_0 - 0.08y_0^2 - 0.08 & -1 \leq x_0 < 1.5, 2 - 1x_0 \geq y_0 < 3 \\ 0.48x_0 - 0.16x_0^2 + 0.64 & -1 \leq x_0 < 1.5, y_0 \geq 3 \\ 1 & x_0 \geq 1.5, y_0 \geq 3 \end{cases}$$

Número de DNI/pasaporte 45924902:

- Ejercicio 1:

$$k = 0.014 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -6 \text{ ó } -5 \leq x_0 < 7, -6 \leq y_0 < 1 - 1x_0 \\ 0.014x_0y_0 - 0.014x_0 + 0.007x_0^2 - 0.014y_0 + 0.007y_0^2 + 0.007 & -5 \leq x_0 < 7, 1 - 1x_0 \leq y_0 < 6 \\ 0.083y_0 + 0.007y_0^2 + 0.25 & x_0 \geq 7, -6 \leq y_0 < 6 \\ 0.069x_0 + 0.007x_0^2 + 0.174 & -5 \leq x_0 < 7, y_0 \geq 6 \\ 1 & x_0 \geq 7, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < 0 \text{ ó } -5 \leq x_0 < 1, 0 \leq y_0 < 1 - 1x_0 \\ 0.028x_0y_0 - 0.028x_0 + 0.014x_0^2 - 0.028y_0 + 0.014y_0^2 + 0.014 & -5 \leq x_0 < 1, 1 - 1x_0 \leq y_0 < 6 \\ 0.028x_0y_0 + 0.028x_0 - 0.014x_0^2 - 0.028y_0 + 0.014y_0^2 - 0.014 & 1 \leq x_0 < 7, -1 + 1x_0 \leq y_0 < 6 \\ 0y_0 + 0.028y_0^2 + 0 & x_0 \geq 7, 0 \leq y_0 < 6 \\ 0.139x_0 + 0.014x_0^2 + 0.347 & -5 \leq x_0 < 1, y_0 \geq 6 \\ 0.194x_0 - 0.014x_0^2 + 0.319 & 1 \leq x_0 < 7, y_0 \geq 6 \\ 1 & x_0 \geq 7, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte 46269657:

- Ejercicio 1:

$$k = 0.02 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -1 \\ 0.02x_0y_0 + 0.02x_0 + 0.06y_0 - 0.01y_0^2 + 0.07 & -4 \leq x_0 < 6, -1 \leq y_0 < 3 + 1x_0 \\ 0.08x_0 + 0.01x_0^2 + 0.16 & -4 \leq x_0 < 6, y_0 \geq 3 + 1x_0 \\ 0.18y_0 - 0.01y_0^2 + 0.19 & x_0 \geq 6, -1 \leq y_0 < 9 \\ 1 & x_0 \geq 6, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -1 \\ 0.04x_0y_0 + 0.04x_0 + 0.12y_0 - 0.02y_0^2 + 0.14 & -4 \leq x_0 < 1, -1 \leq y_0 < 3 + 1x_0 \\ 0.16x_0 + 0.02x_0^2 + 0.32 & -4 \leq x_0 < 1, y_0 \geq 3 + 1x_0 \\ 0.24x_0 - 0.02x_0^2 + 0.32y_0 - 0.04y_0^2 - 0.36 & 1 \leq x_0 < 6, 5 - 1x_0 \leq y_0 < 4 \\ 0.24x_0 - 0.02x_0^2 + 0.28 & 1 \leq x_0 < 6, y_0 \geq 4 \\ 0.32y_0 - 0.04y_0^2 + 0.36 & x_0 \geq 6, -1 \leq y_0 < 4 \\ 1 & x_0 \geq 6, y_0 \geq 4 \end{cases}$$

Número de DNI/pasaporte 47376544:

- Ejercicio 1:

$$k = 0.025 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -6 \\ 0.025x_0y_0 - 0.049x_0 - 0.012x_0^2 + 0.198y_0 + 0.395 & -8 \leq x_0 < 1, 2 + 1x_0 \leq y_0 < 3 \\ 0.148y_0 + 0.012y_0^2 + 0.444 & x_0 \geq -2 + \frac{y_0}{1}, -6 \leq y_0 < 3 \\ 0.025x_0 - 0.012x_0^2 + 0.988 & -8 \leq x_0 < 1, y_0 \geq 3 \\ 1 & x_0 \geq 1, y_0 \geq 3 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -3.5 \text{ ó } y_0 < -6 \text{ ó } -3.5 \leq x_0 < 1, -6 \leq y_0 < -5 - 1x_0 \\ 0.049x_0y_0 + 0.247x_0 + 0.025x_0^2 + 0.247y_0 + 0.025y_0^2 + 0.617 & -3.5 \leq x_0 < 1, -5 - 1x_0 \leq y_0 < -1.5 \\ 0.296y_0 + 0.025y_0^2 + 0.889 & x_0 \geq 1, -6 \leq y_0 < -1.5 \\ 0.049x_0y_0 + 0.247x_0 + 0.025x_0^2 + 0.099y_0 - 0.025y_0^2 + 0.506 & -3.5 \leq x_0 < 1, -1.5 \leq y_0 < 2 + 1x_0 \\ 0.148y_0 - 0.025y_0^2 + 0.778 & x_0 \geq 1, -1.5 \leq y_0 < 3 \\ 0.346x_0 + 0.049x_0^2 + 0.605 & -3.5 \leq x_0 < 1, y_0 \geq 2 + 1x_0 \\ 1 & x_0 \geq 1, y_0 \geq 3 \end{cases}$$

Número de DNI/pasaporte 49046978:

- Ejercicio 1:

$$k = 0.025 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -4 \\ 0.025x_0y_0 + 0.099x_0 - 0.099y_0 - 0.012y_0^2 - 0.198 & 0 \leq x_0 < 9, -4 \leq y_0 < -4 + 1x_0 \\ 0x_0 + 0.012x_0^2 + 0 & 0 \leq x_0 < 9, y_0 \geq -4 + 1x_0 \\ 0.123y_0 - 0.012y_0^2 + 0.691 & x_0 \geq 9, -4 \leq y_0 < 5 \\ 1 & x_0 \geq 9, y_0 \geq 5 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -4 \\ 0.049x_0y_0 + 0.198x_0 - 0.198y_0 - 0.025y_0^2 - 0.395 & 0 \leq x_0 < 4.5, -4 \leq y_0 < -4 + 1x_0 \\ 0x_0 + 0.025x_0^2 + 0 & 0 \leq x_0 < 4.5, y_0 \geq -4 + 1x_0 \\ 0.444x_0 - 0.025x_0^2 + 0.049y_0 - 0.049y_0^2 - 1.012 & 4.5 \leq x_0 < 9, 5 - 1x_0 \leq y_0 < 0.5 \\ 0.444x_0 - 0.025x_0^2 - 1 & 4.5 \leq x_0 < 9, y_0 \geq 0.5 \\ 0.049y_0 - 0.049y_0^2 + 0.988 & x_0 \geq 9, -4 \leq y_0 < 0.5 \\ 1 & x_0 \geq 9, y_0 \geq 0.5 \end{cases}$$

Número de DNI/pasaporte 49122439:

- Ejercicio 1:

$$k = 0.02 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < -4 \\ 0.02x_0y_0 + 0.08x_0 + 0.06y_0 - 0.01y_0^2 + 0.4 & -7 \leq x_0 < 3, -4 \leq y_0 < 3 + 1x_0 \\ 0.14x_0 + 0.01x_0^2 + 0.49 & -7 \leq x_0 < 3, y_0 \geq 3 + 1x_0 \\ 0.12y_0 - 0.01y_0^2 + 0.64 & x_0 \geq 3, -4 \leq y_0 < 6 \\ 1 & x_0 \geq 3, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < -4 \\ 0.04x_0y_0 - 0.12x_0 - 0.02x_0^2 + 0.28y_0 + 0.14 & -7 \leq x_0 < -2, 3 + 1x_0 \leq y_0 < -1 - 1x_0 \\ 0.16y_0 + 0.02y_0^2 + 0.32 & x_0 \geq -3 + \frac{y_0}{1}, -4 \leq y_0 < 1 \\ 0.24y_0 - 0.02y_0^2 + 0.28 & x_0 \geq -2, 1 \leq y_0 < 6 \\ -0.16x_0 - 0.04x_0^2 + 0.24y_0 - 0.02y_0^2 + 0.12 & -7 \leq x_0 < -2, -1 - 1x_0 \geq y_0 < 6 \\ -0.16x_0 - 0.04x_0^2 + 0.84 & -7 \leq x_0 < -2, y_0 \geq 6 \\ 1 & x_0 \geq -2, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte 49212789:

- Ejercicio 1:

$$k = 0.028 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -10 \text{ ó } 0 \leq x_0 < 6, -10 \leq y_0 < 2 - 2x_0 \\ 0.028x_0y_0 - 0.056x_0 + 0.028x_0^2 - 0.028y_0 + 0.007y_0^2 + 0.028 & 0 \leq x_0 < 6, 2 - 2x_0 \leq y_0 < 2 \\ 0.139y_0 + 0.007y_0^2 + 0.694 & x_0 \geq 6, -10 \leq y_0 < 2 \\ 0x_0 + 0.028x_0^2 + 0 & 0 \leq x_0 < 6, y_0 \geq 2 \\ 1 & x_0 \geq 6, y_0 \geq 2 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < 4.5 \text{ ó } -10 \leq x_0 < -4.5, 4.5 \leq y_0 < 0 - 1x_0 \\ 0.033x_0y_0 - 0x_0 + 0.017x_0^2 - 0y_0 + 0.017y_0^2 + 0 & -10 \leq x_0 < -4.5, 0 - 1x_0 \leq y_0 < 10 \\ 0.033x_0y_0 - 0.298x_0 - 0.017x_0^2 - 0y_0 + 0.017y_0^2 - 0.669 & -4.5 \leq x_0 < 1, 9 + 1x_0 \leq y_0 < 10 \\ -0.298y_0 + 0.033y_0^2 + 0.669 & x_0 \geq 1, 4.5 \leq y_0 < 10 \\ 0.331x_0 + 0.017x_0^2 + 1.653 & -10 \leq x_0 < -4.5, y_0 \geq 10 \\ 0.033x_0 - 0.017x_0^2 + 0.983 & -4.5 \leq x_0 < 1, y_0 \geq 10 \\ 1 & x_0 \geq 1, y_0 \geq 10 \end{cases}$$

Número de DNI/pasaporte 49303656:

- Ejercicio 1:

$$k = 0.25 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -2 \\ 0.25x_0y_0 + 0.5x_0 - 0.062y_0 - 0.016y_0^2 - 0.062 & 0 \leq x_0 < 1, -2 \leq y_0 < -2 + 8x_0 \\ 0x_0 + 1x_0^2 + 0 & 0 \leq x_0 < 1, y_0 \geq -2 + 8x_0 \\ 0.188y_0 - 0.016y_0^2 + 0.438 & x_0 \geq 1, -2 \leq y_0 < 6 \\ 1 & x_0 \geq 1, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < 0 \\ 0.049x_0y_0 - 0.395x_0 - 0.025x_0^2 + 0.395y_0 - 1.58 & -8 \leq x_0 < -3.5, 8 + 1x_0 \leq y_0 < 1 - 1x_0 \\ 0y_0 + 0.025y_0^2 + 0 & x_0 \geq -8 + \frac{y_0}{1}, 0 \leq y_0 < 4.5 \\ 0.444y_0 - 0.025y_0^2 - 1 & x_0 \geq -3.5, 4.5 \leq y_0 < 9 \\ -0.346x_0 - 0.049x_0^2 + 0.444y_0 - 0.025y_0^2 - 1.605 & -8 \leq x_0 < -3.5, 1 - 1x_0 \geq y_0 < 9 \\ -0.346x_0 - 0.049x_0^2 + 0.395 & -8 \leq x_0 < -3.5, y_0 \geq 9 \\ 1 & x_0 \geq -3.5, y_0 \geq 9 \end{cases}$$

Número de DNI/pasaporte 50640568:

- Ejercicio 1:

$$k = 0.02 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -10 \text{ ó } -5 \leq x_0 < 2, -10 \leq y_0 < -6 - 2x_0 \\ 0.02x_0y_0 + 0.122x_0 + 0.02x_0^2 + 0.061y_0 + 0.005y_0^2 + 0.184 & -5 \leq x_0 < 2, -6 - 2x_0 \leq y_0 < 4 \\ 0.102y_0 + 0.005y_0^2 + 0.51 & x_0 \geq 2, -10 \leq y_0 < 4 \\ 0.204x_0 + 0.02x_0^2 + 0.51 & -5 \leq x_0 < 2, y_0 \geq 4 \\ 1 & x_0 \geq 2, y_0 \geq 4 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -1 \\ 0.049x_0y_0 + 0.049x_0 + 0.346y_0 - 0.025y_0^2 + 0.37 & -8 \leq x_0 < -3.5, -1 \leq y_0 < 7 + 1x_0 \\ 0.395x_0 + 0.025x_0^2 + 1.58 & -8 \leq x_0 < -3.5, y_0 \geq 7 + 1x_0 \\ 0.049x_0 - 0.025x_0^2 + 0.346y_0 - 0.049y_0^2 + 0.37 & -3.5 \leq x_0 < 1, 0 - 1x_0 \leq y_0 < 3.5 \\ 0.049x_0 - 0.025x_0^2 + 0.975 & -3.5 \leq x_0 < 1, y_0 \geq 3.5 \\ 0.346y_0 - 0.049y_0^2 + 0.395 & x_0 \geq 1, -1 \leq y_0 < 3.5 \\ 1 & x_0 \geq 1, y_0 \geq 3.5 \end{cases}$$

Número de DNI/pasaporte 53914881:

- Ejercicio 1:

$$k = 0.012 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < -5 \text{ ó } -7 \leq x_0 < 6, -5 \leq y_0 < 1 - 1x_0 \\ 0.012x_0y_0 - 0.012x_0 + 0.006x_0^2 - 0.012y_0 + 0.006y_0^2 + 0.006 & -7 \leq x_0 < 6, 1 - 1x_0 \leq y_0 < 8 \\ 0.059y_0 + 0.006y_0^2 + 0.148 & x_0 \geq 6, -5 \leq y_0 < 8 \\ 0.083x_0 + 0.006x_0^2 + 0.29 & -7 \leq x_0 < 6, y_0 \geq 8 \\ 1 & x_0 \geq 6, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < 1.5 \text{ ó } -7 \leq x_0 < -0.5, 1.5 \leq y_0 < 1 - 1x_0 \\ 0.024x_0y_0 - 0.024x_0 + 0.012x_0^2 - 0.024y_0 + 0.012y_0^2 + 0.012 & -7 \leq x_0 < -0.5, 1 - 1x_0 \leq y_0 < 8 \\ 0.024x_0y_0 - 0.047x_0 - 0.012x_0^2 - 0.024y_0 + 0.012y_0^2 + 0.006 & -0.5 \leq x_0 < 6, 2 + 1x_0 \leq y_0 < 8 \\ -0.071y_0 + 0.024y_0^2 + 0.053 & x_0 \geq 6, 1.5 \leq y_0 < 8 \\ 0.166x_0 + 0.012x_0^2 + 0.58 & -7 \leq x_0 < -0.5, y_0 \geq 8 \\ 0.142x_0 - 0.012x_0^2 + 0.574 & -0.5 \leq x_0 < 6, y_0 \geq 8 \\ 1 & x_0 \geq 6, y_0 \geq 8 \end{cases}$$

Número de DNI/pasaporte 53916233:

- Ejercicio 1:

$$k = 0.012 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < -3 \\ 0.012x_0y_0 + 0.036x_0 + 0.083y_0 - 0.006y_0^2 + 0.302 & -10 \leq x_0 < 3, -3 \leq y_0 < 7 + 1x_0 \\ 0.118x_0 + 0.006x_0^2 + 0.592 & -10 \leq x_0 < 3, y_0 \geq 7 + 1x_0 \\ 0.118y_0 - 0.006y_0^2 + 0.408 & x_0 \geq 3, -3 \leq y_0 < 10 \\ 1 & x_0 \geq 3, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < -3 \\ 0.024x_0y_0 + 0.071x_0 + 0.166y_0 - 0.012y_0^2 + 0.604 & -10 \leq x_0 < -3.5, -3 \leq y_0 < 7 + 1x_0 \\ 0.237x_0 + 0.012x_0^2 + 1.183 & -10 \leq x_0 < -3.5, y_0 \geq 7 + 1x_0 \\ 0.071x_0 - 0.012x_0^2 + 0.166y_0 - 0.024y_0^2 + 0.604 & -3.5 \leq x_0 < 3, 0 - 1x_0 \leq y_0 < 3.5 \\ 0.071x_0 - 0.012x_0^2 + 0.893 & -3.5 \leq x_0 < 3, y_0 \geq 3.5 \\ 0.166y_0 - 0.024y_0^2 + 0.71 & x_0 \geq 3, -3 \leq y_0 < 3.5 \\ 1 & x_0 \geq 3, y_0 \geq 3.5 \end{cases}$$

Número de DNI/pasaporte 70591576:

- Ejercicio 1:

$$k = 0.009 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -6 \text{ ó } y_0 < -7 \\ 0.009x_0y_0 + 0.009x_0 - 0.004x_0^2 + 0.053y_0 + 0.213 & -6 \leq x_0 < 9, -1 + 1x_0 \leq y_0 < 8 \\ 0.062y_0 + 0.004y_0^2 + 0.218 & x_0 \geq 1 + \frac{y_0}{1}, -7 \leq y_0 < 8 \\ 0.08x_0 - 0.004x_0^2 + 0.64 & -6 \leq x_0 < 9, y_0 \geq 8 \\ 1 & x_0 \geq 9, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 1.5 \text{ ó } y_0 < -7 \text{ ó } 1.5 \leq x_0 < 9, -7 \leq y_0 < 2 - 1x_0 \\ 0.018x_0y_0 - 0.036x_0 + 0.009x_0^2 - 0.036y_0 + 0.009y_0^2 + 0.036 & 1.5 \leq x_0 < 9, 2 - 1x_0 \leq y_0 < 0.5 \\ 0.124y_0 + 0.009y_0^2 + 0.436 & x_0 \geq 9, -7 \leq y_0 < 0.5 \\ 0.018x_0y_0 - 0.036x_0 + 0.009x_0^2 - 0.018y_0 - 0.009y_0^2 + 0.031 & 1.5 \leq x_0 < 9, 0.5 \leq y_0 < -1 + 1x_0 \\ 0.142y_0 - 0.009y_0^2 + 0.431 & x_0 \geq 9, 0.5 \leq y_0 < 8 \\ -0.053x_0 + 0.018x_0^2 + 0.04 & 1.5 \leq x_0 < 9, y_0 \geq -1 + 1x_0 \\ 1 & x_0 \geq 9, y_0 \geq 8 \end{cases}$$

Número de DNI/pasaporte 74539399:

- Ejercicio 1:

$$k = 0.012 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -9 \\ 0.012x_0y_0 + 0.012x_0 - 0.012x_0^2 + 0.049y_0 + 0.247 & -4 \leq x_0 < 5, -1 + 2x_0 \leq y_0 < 9 \\ 0.056y_0 + 0.003y_0^2 + 0.25 & x_0 \geq 0.5 + \frac{y_0}{2}, -9 \leq y_0 < 9 \\ 0.123x_0 - 0.012x_0^2 + 0.691 & -4 \leq x_0 < 5, y_0 \geq 9 \\ 1 & x_0 \geq 5, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -3.5 \text{ ó } -8 \leq x_0 < -1.5, -3.5 \leq y_0 < -5 - 1x_0 \\ 0.024x_0y_0 + 0.118x_0 + 0.012x_0^2 + 0.118y_0 + 0.012y_0^2 + 0.296 & -8 \leq x_0 < -1.5, -5 - 1x_0 \leq y_0 < 3 \\ 0.024x_0y_0 + 0.047x_0 - 0.012x_0^2 + 0.118y_0 + 0.012y_0^2 + 0.243 & -1.5 \leq x_0 < 5, -2 + 1x_0 \leq y_0 < 3 \\ 0.166y_0 + 0.024y_0^2 + 0.29 & x_0 \geq 5, -3.5 \leq y_0 < 3 \\ 0.189x_0 + 0.012x_0^2 + 0.757 & -8 \leq x_0 < -1.5, y_0 \geq 3 \\ 0.118x_0 - 0.012x_0^2 + 0.704 & -1.5 \leq x_0 < 5, y_0 \geq 3 \\ 1 & x_0 \geq 5, y_0 \geq 3 \end{cases}$$

Número de DNI/pasaporte 74689051:

- Ejercicio 1:

$$k = 0.02 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < 0 \text{ ó } -4 \leq x_0 < 6, 0 \leq y_0 < 6 - 1x_0 \\ 0.02x_0y_0 - 0.12x_0 + 0.01x_0^2 - 0.12y_0 + 0.01y_0^2 + 0.36 & -4 \leq x_0 < 6, 6 - 1x_0 \leq y_0 < 10 \\ 0y_0 + 0.01y_0^2 + 0 & x_0 \geq 6, 0 \leq y_0 < 10 \\ 0.08x_0 + 0.01x_0^2 + 0.16 & -4 \leq x_0 < 6, y_0 \geq 10 \\ 1 & x_0 \geq 6, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < 5 \text{ ó } -4 \leq x_0 < 1, 5 \leq y_0 < 6 - 1x_0 \\ 0.04x_0y_0 - 0.24x_0 + 0.02x_0^2 - 0.24y_0 + 0.02y_0^2 + 0.72 & -4 \leq x_0 < 1, 6 - 1x_0 \leq y_0 < 10 \\ 0.04x_0y_0 - 0.16x_0 - 0.02x_0^2 - 0.24y_0 + 0.02y_0^2 + 0.68 & 1 \leq x_0 < 6, 4 + 1x_0 \leq y_0 < 10 \\ -0.4y_0 + 0.04y_0^2 + 1 & x_0 \geq 6, 5 \leq y_0 < 10 \\ 0.16x_0 + 0.02x_0^2 + 0.32 & -4 \leq x_0 < 1, y_0 \geq 10 \\ 0.24x_0 - 0.02x_0^2 + 0.28 & 1 \leq x_0 < 6, y_0 \geq 10 \\ 1 & x_0 \geq 6, y_0 \geq 10 \end{cases}$$

Número de DNI/pasaporte 74744360:

- Ejercicio 1:

$$k = 0.02 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < -4 \text{ ó } -7 \leq x_0 < 3, -4 \leq y_0 < -1 - 1x_0 \\ 0.02x_0y_0 + 0.02x_0 + 0.01x_0^2 + 0.02y_0 + 0.01y_0^2 + 0.01 & -7 \leq x_0 < 3, -1 - 1x_0 \leq y_0 < 6 \\ 0.08y_0 + 0.01y_0^2 + 0.16 & x_0 \geq 3, -4 \leq y_0 < 6 \\ 0.14x_0 + 0.01x_0^2 + 0.49 & -7 \leq x_0 < 3, y_0 \geq 6 \\ 1 & x_0 \geq 3, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < 1 \text{ ó } -7 \leq x_0 < -2, 1 \leq y_0 < -1 - 1x_0 \\ 0.04x_0y_0 + 0.04x_0 + 0.02x_0^2 + 0.04y_0 + 0.02y_0^2 + 0.02 & -7 \leq x_0 < -2, -1 - 1x_0 \leq y_0 < 6 \\ 0.04x_0y_0 - 0.12x_0 - 0.02x_0^2 + 0.04y_0 + 0.02y_0^2 - 0.14 & -2 \leq x_0 < 3, 3 + 1x_0 \leq y_0 < 6 \\ -0.08y_0 + 0.04y_0^2 + 0.04 & x_0 \geq 3, 1 \leq y_0 < 6 \\ 0.28x_0 + 0.02x_0^2 + 0.98 & -7 \leq x_0 < -2, y_0 \geq 6 \\ 0.12x_0 - 0.02x_0^2 + 0.82 & -2 \leq x_0 < 3, y_0 \geq 6 \\ 1 & x_0 \geq 3, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte 75109212:

- Ejercicio 1:

$$k = 0.08 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -1 \\ 0.08x_0y_0 + 0.08x_0 - 0.04x_0^2 - 0y_0 + 0 & 0 \leq x_0 < 5, -1 + 1x_0 \leq y_0 < 4 \\ 0.08y_0 + 0.04y_0^2 + 0.04 & x_0 \geq 1 + \frac{y_0}{1}, -1 \leq y_0 < 4 \\ 0.4x_0 - 0.04x_0^2 + 0 & 0 \leq x_0 < 5, y_0 \geq 4 \\ 1 & x_0 \geq 5, y_0 \geq 4 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 2.5 \text{ ó } y_0 < -1 \text{ ó } 2.5 \leq x_0 < 5, -1 \leq y_0 < 4 - 1x_0 \\ 0.16x_0y_0 - 0.64x_0 + 0.08x_0^2 - 0.64y_0 + 0.08y_0^2 + 1.28 & 2.5 \leq x_0 < 5, 4 - 1x_0 \leq y_0 < 1.5 \\ 0.16y_0 + 0.08y_0^2 + 0.08 & x_0 \geq 5, -1 \leq y_0 < 1.5 \\ 0.16x_0y_0 - 0.64x_0 + 0.08x_0^2 - 0.16y_0 - 0.08y_0^2 + 0.92 & 2.5 \leq x_0 < 5, 1.5 \leq y_0 < -1 + 1x_0 \\ 0.64y_0 - 0.08y_0^2 - 0.28 & x_0 \geq 5, 1.5 \leq y_0 < 4 \\ -0.8x_0 + 0.16x_0^2 + 1 & 2.5 \leq x_0 < 5, y_0 \geq -1 + 1x_0 \\ 1 & x_0 \geq 5, y_0 \geq 4 \end{cases}$$

Número de DNI/pasaporte 75133294:

- Ejercicio 1:

$$k = 0.044 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -8 \\ 0.044x_0y_0 + 0.356x_0 - 0.111x_0^2 - 0y_0 + 0 & 0 \leq x_0 < 3, -8 + 5x_0 \leq y_0 < 7 \\ 0.071y_0 + 0.004y_0^2 + 0.284 & x_0 \geq 1.6 + \frac{y_0}{5}, -8 \leq y_0 < 7 \\ 0.667x_0 - 0.111x_0^2 + 0 & 0 \leq x_0 < 3, y_0 \geq 7 \\ 1 & x_0 \geq 3, y_0 \geq 7 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -0.5 \text{ ó } -4 \leq x_0 < -0.5, -0.5 \leq y_0 < -1 - 1x_0 \\ 0.082x_0y_0 + 0.082x_0 + 0.041x_0^2 + 0.082y_0 + 0.041y_0^2 + 0.041 & -4 \leq x_0 < -0.5, -1 - 1x_0 \leq y_0 < 3 \\ 0.082x_0y_0 - 0x_0 - 0.041x_0^2 + 0.082y_0 + 0.041y_0^2 + 0.02 & -0.5 \leq x_0 < 3, 0 + 1x_0 \leq y_0 < 3 \\ 0.082y_0 + 0.082y_0^2 + 0.02 & x_0 \geq 3, -0.5 \leq y_0 < 3 \\ 0.327x_0 + 0.041x_0^2 + 0.653 & -4 \leq x_0 < -0.5, y_0 \geq 3 \\ 0.245x_0 - 0.041x_0^2 + 0.633 & -0.5 \leq x_0 < 3, y_0 \geq 3 \\ 1 & x_0 \geq 3, y_0 \geq 3 \end{cases}$$

Número de DNI/pasaporte 75171303:

- Ejercicio 1:

$$k = 0.02 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -1 \\ 0.02x_0y_0 - 0.04x_0 - 0.01x_0^2 + 0.06y_0 - 0.03 & -3 \leq x_0 < 7, 2 + 1x_0 \leq y_0 < 9 \\ 0.02y_0 + 0.01y_0^2 + 0.01 & x_0 \geq -2 + \frac{y_0}{1}, -1 \leq y_0 < 9 \\ 0.14x_0 - 0.01x_0^2 + 0.51 & -3 \leq x_0 < 7, y_0 \geq 9 \\ 1 & x_0 \geq 7, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 2 \text{ ó } y_0 < -1 \text{ ó } 2 \leq x_0 < 7, -1 \leq y_0 < 6 - 1x_0 \\ 0.04x_0y_0 - 0.24x_0 + 0.02x_0^2 - 0.24y_0 + 0.02y_0^2 + 0.72 & 2 \leq x_0 < 7, 6 - 1x_0 \leq y_0 < 4 \\ 0.04y_0 + 0.02y_0^2 + 0.02 & x_0 \geq 7, -1 \leq y_0 < 4 \\ 0.04x_0y_0 - 0.24x_0 + 0.02x_0^2 + 0.08y_0 - 0.02y_0^2 + 0.08 & 2 \leq x_0 < 7, 4 \leq y_0 < 2 + 1x_0 \\ 0.36y_0 - 0.02y_0^2 - 0.62 & x_0 \geq 7, 4 \leq y_0 < 9 \\ -0.16x_0 + 0.04x_0^2 + 0.16 & 2 \leq x_0 < 7, y_0 \geq 2 + 1x_0 \\ 1 & x_0 \geq 7, y_0 \geq 9 \end{cases}$$

Número de DNI/pasaporte 75570489:

- Ejercicio 1:

$$k = 0.02 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -5 \\ 0.02x_0y_0 - 0.02x_0 - 0.02x_0^2 + 0.061y_0 + 0.122 & -3 \leq x_0 < 4, 1 + 2x_0 \leq y_0 < 9 \\ 0.051y_0 + 0.005y_0^2 + 0.128 & x_0 \geq -0.5 + \frac{y_0}{2}, -5 \leq y_0 < 9 \\ 0.163x_0 - 0.02x_0^2 + 0.673 & -3 \leq x_0 < 4, y_0 \geq 9 \\ 1 & x_0 \geq 4, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -3 \\ 0.024x_0y_0 + 0.071x_0 + 0.047y_0 - 0.012y_0^2 + 0.249 & -5 \leq x_0 < 1.5, -3 \leq y_0 < 2 + 1x_0 \\ 0.118x_0 + 0.012x_0^2 + 0.296 & -5 \leq x_0 < 1.5, y_0 \geq 2 + 1x_0 \\ 0.189x_0 - 0.012x_0^2 + 0.166y_0 - 0.024y_0^2 - 0.047 & 1.5 \leq x_0 < 8, 5 - 1x_0 \leq y_0 < 3.5 \\ 0.189x_0 - 0.012x_0^2 + 0.243 & 1.5 \leq x_0 < 8, y_0 \geq 3.5 \\ 0.166y_0 - 0.024y_0^2 + 0.71 & x_0 \geq 8, -3 \leq y_0 < 3.5 \\ 1 & x_0 \geq 8, y_0 \geq 3.5 \end{cases}$$

Número de DNI/pasaporte 75571587:

- Ejercicio 1:

$$k = 0.02 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -7 \\ 0.02x_0y_0 + 0.143x_0 - 0.02x_0^2 - 0y_0 + 0 & 0 \leq x_0 < 7, -7 + 2x_0 \leq y_0 < 7 \\ 0.071y_0 + 0.005y_0^2 + 0.25 & x_0 \geq 3.5 + \frac{y_0}{2}, -7 \leq y_0 < 7 \\ 0.286x_0 - 0.02x_0^2 + 0 & 0 \leq x_0 < 7, y_0 \geq 7 \\ 1 & x_0 \geq 7, y_0 \geq 7 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 1 \text{ ó } y_0 < -1 \text{ ó } 1 \leq x_0 < 3, -1 \leq y_0 < 2 - 1x_0 \\ 0.25x_0y_0 - 0.5x_0 + 0.125x_0^2 - 0.5y_0 + 0.125y_0^2 + 0.5 & 1 \leq x_0 < 3, 2 - 1x_0 \leq y_0 < 1 \\ 0.25y_0 + 0.125y_0^2 + 0.125 & x_0 \geq 3, -1 \leq y_0 < 1 \\ 0.25x_0y_0 - 0.5x_0 + 0.125x_0^2 - 0y_0 - 0.125y_0^2 + 0.25 & 1 \leq x_0 < 3, 1 \leq y_0 < 0 + 1x_0 \\ 0.75y_0 - 0.125y_0^2 - 0.125 & x_0 \geq 3, 1 \leq y_0 < 3 \\ -0.5x_0 + 0.25x_0^2 + 0.25 & 1 \leq x_0 < 3, y_0 \geq 0 + 1x_0 \\ 1 & x_0 \geq 3, y_0 \geq 3 \end{cases}$$

Número de DNI/pasaporte 75575678:

- Ejercicio 1:

$$k = 0.031 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -4 \text{ ó } -4 \leq x_0 < 4, -4 \leq y_0 < 0 - 1x_0 \\ 0.031x_0y_0 - 0x_0 + 0.016x_0^2 - 0y_0 + 0.016y_0^2 + 0 & -4 \leq x_0 < 4, 0 - 1x_0 \leq y_0 < 4 \\ 0.125y_0 + 0.016y_0^2 + 0.25 & x_0 \geq 4, -4 \leq y_0 < 4 \\ 0.125x_0 + 0.016x_0^2 + 0.25 & -4 \leq x_0 < 4, y_0 \geq 4 \\ 1 & x_0 \geq 4, y_0 \geq 4 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < 0 \text{ ó } -4 \leq x_0 < 0, 0 \leq y_0 < 0 - 1x_0 \\ 0.062x_0y_0 - 0x_0 + 0.031x_0^2 - 0y_0 + 0.031y_0^2 + 0 & -4 \leq x_0 < 0, 0 - 1x_0 \leq y_0 < 4 \\ 0.062x_0y_0 - 0x_0 - 0.031x_0^2 - 0y_0 + 0.031y_0^2 + 0 & 0 \leq x_0 < 4, 0 + 1x_0 \leq y_0 < 4 \\ 0y_0 + 0.062y_0^2 + 0 & x_0 \geq 4, 0 \leq y_0 < 4 \\ 0.25x_0 + 0.031x_0^2 + 0.5 & -4 \leq x_0 < 0, y_0 \geq 4 \\ 0.25x_0 - 0.031x_0^2 + 0.5 & 0 \leq x_0 < 4, y_0 \geq 4 \\ 1 & x_0 \geq 4, y_0 \geq 4 \end{cases}$$

Número de DNI/pasaporte 75577735:

- Ejercicio 1:

$$k = 0.041 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -5 \text{ ó } -1 \leq x_0 < 6, -5 \leq y_0 < 1 - 1x_0 \\ 0.041x_0y_0 - 0.041x_0 + 0.02x_0^2 - 0.041y_0 + 0.02y_0^2 + 0.02 & -1 \leq x_0 < 6, 1 - 1x_0 \leq y_0 < 2 \\ 0.204y_0 + 0.02y_0^2 + 0.51 & x_0 \geq 6, -5 \leq y_0 < 2 \\ 0.041x_0 + 0.02x_0^2 + 0.02 & -1 \leq x_0 < 6, y_0 \geq 2 \\ 1 & x_0 \geq 6, y_0 \geq 2 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -1.5 \text{ ó } -1 \leq x_0 < 2.5, -1.5 \leq y_0 < 1 - 1x_0 \\ 0.082x_0y_0 - 0.082x_0 + 0.041x_0^2 - 0.082y_0 + 0.041y_0^2 + 0.041 & -1 \leq x_0 < 2.5, 1 - 1x_0 \leq y_0 < 2 \\ 0.082x_0y_0 + 0.327x_0 - 0.041x_0^2 - 0.082y_0 + 0.041y_0^2 - 0.469 & 2.5 \leq x_0 < 6, -4 + 1x_0 \leq y_0 < 2 \\ 0.245y_0 + 0.082y_0^2 + 0.184 & x_0 \geq 6, -1.5 \leq y_0 < 2 \\ 0.082x_0 + 0.041x_0^2 + 0.041 & -1 \leq x_0 < 2.5, y_0 \geq 2 \\ 0.49x_0 - 0.041x_0^2 - 0.469 & 2.5 \leq x_0 < 6, y_0 \geq 2 \\ 1 & x_0 \geq 6, y_0 \geq 2 \end{cases}$$

Número de DNI/pasaporte 75922307:

- Ejercicio 1:

$$k = 0.083 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -4 \text{ ó } -1 \leq x_0 < 1, -4 \leq y_0 < 2 - 6x_0 \\ 0.083x_0y_0 - 0.167x_0 + 0.25x_0^2 - 0.028y_0 + 0.007y_0^2 + 0.028 & -1 \leq x_0 < 1, 2 - 6x_0 \leq y_0 < 8 \\ 0.056y_0 + 0.007y_0^2 + 0.111 & x_0 \geq 1, -4 \leq y_0 < 8 \\ 0.5x_0 + 0.25x_0^2 + 0.25 & -1 \leq x_0 < 1, y_0 \geq 8 \\ 1 & x_0 \geq 1, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < -9 \\ 0.018x_0y_0 - 0.018x_0 - 0.009x_0^2 + 0.178y_0 + 0.711 & -10 \leq x_0 < -2.5, 1 + 1x_0 \leq y_0 < -4 - 1x_0 \\ 0.16y_0 + 0.009y_0^2 + 0.72 & x_0 \geq -1 + \frac{y_0}{1}, -9 \leq y_0 < -1.5 \\ 0.107y_0 - 0.009y_0^2 + 0.68 & x_0 \geq -2.5, -1.5 \leq y_0 < 6 \\ -0.089x_0 - 0.018x_0^2 + 0.107y_0 - 0.009y_0^2 + 0.569 & -10 \leq x_0 < -2.5, -4 - 1x_0 \geq y_0 < 6 \\ -0.089x_0 - 0.018x_0^2 + 0.889 & -10 \leq x_0 < -2.5, y_0 \geq 6 \\ 1 & x_0 \geq -2.5, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte 75928662:

- Ejercicio 1:

$$k = 0.025 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -3 \\ 0.025x_0y_0 + 0.074x_0 + 0.025y_0 - 0.012y_0^2 + 0.185 & -4 \leq x_0 < 5, -3 \leq y_0 < 1 + 1x_0 \\ 0.099x_0 + 0.012x_0^2 + 0.198 & -4 \leq x_0 < 5, y_0 \geq 1 + 1x_0 \\ 0.148y_0 - 0.012y_0^2 + 0.556 & x_0 \geq 5, -3 \leq y_0 < 6 \\ 1 & x_0 \geq 5, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -3 \\ 0.049x_0y_0 - 0.049x_0 - 0.025x_0^2 + 0.198y_0 + 0.198 & -4 \leq x_0 < 0.5, 1 + 1x_0 \leq y_0 < 2 - 1x_0 \\ 0.148y_0 + 0.025y_0^2 + 0.222 & x_0 \geq -1 + \frac{y_0}{1}, -3 \leq y_0 < 1.5 \\ 0.296y_0 - 0.025y_0^2 + 0.111 & x_0 \geq 0.5, 1.5 \leq y_0 < 6 \\ 0.049x_0 - 0.049x_0^2 + 0.296y_0 - 0.025y_0^2 + 0.099 & -4 \leq x_0 < 0.5, 2 - 1x_0 \geq y_0 < 6 \\ 0.049x_0 - 0.049x_0^2 + 0.988 & -4 \leq x_0 < 0.5, y_0 \geq 6 \\ 1 & x_0 \geq 0.5, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte 75930261:

- Ejercicio 1:

$$k = 0.019 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -10 \\ 0.019x_0y_0 - 0.037x_0 - 0.028x_0^2 + 0.074y_0 + 0.296 & -4 \leq x_0 < 2, 2 + 3x_0 \leq y_0 < 8 \\ 0.062y_0 + 0.003y_0^2 + 0.309 & x_0 \geq -0.666666666666667 + \frac{y_0}{3}, -10 \leq y_0 < 8 \\ 0.111x_0 - 0.028x_0^2 + 0.889 & -4 \leq x_0 < 2, y_0 \geq 8 \\ 1 & x_0 \geq 2, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < 2 \text{ ó } -4 \leq x_0 < 1, 2 \leq y_0 < 3 - 1x_0 \\ 0.04x_0y_0 - 0.12x_0 + 0.02x_0^2 - 0.12y_0 + 0.02y_0^2 + 0.18 & -4 \leq x_0 < 1, 3 - 1x_0 \leq y_0 < 7 \\ 0.04x_0y_0 - 0.04x_0 - 0.02x_0^2 - 0.12y_0 + 0.02y_0^2 + 0.14 & 1 \leq x_0 < 6, 1 + 1x_0 \leq y_0 < 7 \\ -0.16y_0 + 0.04y_0^2 + 0.16 & x_0 \geq 6, 2 \leq y_0 < 7 \\ 0.16x_0 + 0.02x_0^2 + 0.32 & -4 \leq x_0 < 1, y_0 \geq 7 \\ 0.24x_0 - 0.02x_0^2 + 0.28 & 1 \leq x_0 < 6, y_0 \geq 7 \\ 1 & x_0 \geq 6, y_0 \geq 7 \end{cases}$$

Número de DNI/pasaporte 75934069:

- Ejercicio 1:

$$k = 0.014 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -5 \text{ ó } -8 \leq x_0 < 4, -5 \leq y_0 < -1 - 1x_0 \\ 0.014x_0y_0 + 0.014x_0 + 0.007x_0^2 + 0.014y_0 + 0.007y_0^2 + 0.007 & -8 \leq x_0 < 4, -1 - 1x_0 \leq y_0 < 7 \\ 0.069y_0 + 0.007y_0^2 + 0.174 & x_0 \geq 4, -5 \leq y_0 < 7 \\ 0.111x_0 + 0.007x_0^2 + 0.444 & -8 \leq x_0 < 4, y_0 \geq 7 \\ 1 & x_0 \geq 4, y_0 \geq 7 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < 1 \text{ ó } -8 \leq x_0 < -2, 1 \leq y_0 < -1 - 1x_0 \\ 0.028x_0y_0 + 0.028x_0 + 0.014x_0^2 + 0.028y_0 + 0.014y_0^2 + 0.014 & -8 \leq x_0 < -2, -1 - 1x_0 \leq y_0 < 7 \\ 0.028x_0y_0 - 0.083x_0 - 0.014x_0^2 + 0.028y_0 + 0.014y_0^2 - 0.097 & -2 \leq x_0 < 4, 3 + 1x_0 \leq y_0 < 7 \\ -0.056y_0 + 0.028y_0^2 + 0.028 & x_0 \geq 4, 1 \leq y_0 < 7 \\ 0.222x_0 + 0.014x_0^2 + 0.889 & -8 \leq x_0 < -2, y_0 \geq 7 \\ 0.111x_0 - 0.014x_0^2 + 0.778 & -2 \leq x_0 < 4, y_0 \geq 7 \\ 1 & x_0 \geq 4, y_0 \geq 7 \end{cases}$$

Número de DNI/pasaporte 75935494:

- Ejercicio 1:

$$k = 0.031 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -5 \\ 0.031x_0y_0 + 0.156x_0 - 0.156y_0 - 0.016y_0^2 - 0.391 & 0 \leq x_0 < 8, -5 \leq y_0 < -5 + 1x_0 \\ 0x_0 + 0.016x_0^2 + 0 & 0 \leq x_0 < 8, y_0 \geq -5 + 1x_0 \\ 0.094y_0 - 0.016y_0^2 + 0.859 & x_0 \geq 8, -5 \leq y_0 < 3 \\ 1 & x_0 \geq 8, y_0 \geq 3 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -5 \\ 0.062x_0y_0 + 0.312x_0 - 0.312y_0 - 0.031y_0^2 - 0.781 & 0 \leq x_0 < 4, -5 \leq y_0 < -5 + 1x_0 \\ 0x_0 + 0.031x_0^2 + 0 & 0 \leq x_0 < 4, y_0 \geq -5 + 1x_0 \\ 0.5x_0 - 0.031x_0^2 - 0.125y_0 - 0.062y_0^2 - 1.062 & 4 \leq x_0 < 8, 3 - 1x_0 \leq y_0 < -1 \\ 0.5x_0 - 0.031x_0^2 - 1 & 4 \leq x_0 < 8, y_0 \geq -1 \\ -0.125y_0 - 0.062y_0^2 + 0.938 & x_0 \geq 8, -5 \leq y_0 < -1 \\ 1 & x_0 \geq 8, y_0 \geq -1 \end{cases}$$

Número de DNI/pasaporte 75938159:

- Ejercicio 1:

$$k = 0.016 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -9 \text{ ó } -4 \leq x_0 < 4, -9 \leq y_0 < -1 - 2x_0 \\ 0.016x_0y_0 + 0.016x_0 + 0.016x_0^2 + 0.008y_0 + 0.004y_0^2 + 0.004 & -4 \leq x_0 < 4, -1 - 2x_0 \leq y_0 < 7 \\ 0.07y_0 + 0.004y_0^2 + 0.316 & x_0 \geq 4, -9 \leq y_0 < 7 \\ 0.125x_0 + 0.016x_0^2 + 0.25 & -4 \leq x_0 < 4, y_0 \geq 7 \\ 1 & x_0 \geq 4, y_0 \geq 7 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 0.5 \text{ ó } y_0 < -9 \text{ ó } 0.5 \leq x_0 < 6, -9 \leq y_0 < -3 - 1x_0 \\ 0.033x_0y_0 + 0.099x_0 + 0.017x_0^2 + 0.099y_0 + 0.017y_0^2 + 0.149 & 0.5 \leq x_0 < 6, -3 - 1x_0 \leq y_0 < -3.5 \\ 0.298y_0 + 0.017y_0^2 + 1.339 & x_0 \geq 6, -9 \leq y_0 < -3.5 \\ 0.033x_0y_0 + 0.099x_0 + 0.017x_0^2 - 0.132y_0 - 0.017y_0^2 - 0.256 & 0.5 \leq x_0 < 6, -3.5 \leq y_0 < -4 + 1x_0 \\ 0.066y_0 - 0.017y_0^2 + 0.934 & x_0 \geq 6, -3.5 \leq y_0 < 2 \\ -0.033x_0 + 0.033x_0^2 + 0.008 & 0.5 \leq x_0 < 6, y_0 \geq -4 + 1x_0 \\ 1 & x_0 \geq 6, y_0 \geq 2 \end{cases}$$

Número de DNI/pasaporte 75940560:

- Ejercicio 1:

$$k = 0.04 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -3 \\ 0.04x_0y_0 + 0.12x_0 - 0.02y_0 - 0.01y_0^2 + 0.03 & -1 \leq x_0 < 4, -3 \leq y_0 < -1 + 2x_0 \\ 0.08x_0 + 0.04x_0^2 + 0.04 & -1 \leq x_0 < 4, y_0 \geq -1 + 2x_0 \\ 0.14y_0 - 0.01y_0^2 + 0.51 & x_0 \geq 4, -3 \leq y_0 < 7 \\ 1 & x_0 \geq 4, y_0 \geq 7 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -3 \\ 0.062x_0y_0 - 0x_0 - 0.031x_0^2 + 0.188y_0 + 0.281 & -3 \leq x_0 < 1, 0 + 1x_0 \leq y_0 < 2 - 1x_0 \\ 0.188y_0 + 0.031y_0^2 + 0.281 & x_0 \geq 0 + \frac{y_0}{1}, -3 \leq y_0 < 1 \\ 0.312y_0 - 0.031y_0^2 + 0.219 & x_0 \geq 1, 1 \leq y_0 < 5 \\ 0.125x_0 - 0.062x_0^2 + 0.312y_0 - 0.031y_0^2 + 0.156 & -3 \leq x_0 < 1, 2 - 1x_0 \geq y_0 < 5 \\ 0.125x_0 - 0.062x_0^2 + 0.938 & -3 \leq x_0 < 1, y_0 \geq 5 \\ 1 & x_0 \geq 1, y_0 \geq 5 \end{cases}$$

Número de DNI/pasaporte 75941929:

- Ejercicio 1:

$$k = 0.04 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -9 \text{ ó } -4 \leq x_0 < 1, -9 \leq y_0 < -7 - 2x_0 \\ 0.04x_0y_0 + 0.28x_0 + 0.04x_0^2 + 0.14y_0 + 0.01y_0^2 + 0.49 & -4 \leq x_0 < 1, -7 - 2x_0 \leq y_0 < 1 \\ 0.18y_0 + 0.01y_0^2 + 0.81 & x_0 \geq 1, -9 \leq y_0 < 1 \\ 0.32x_0 + 0.04x_0^2 + 0.64 & -4 \leq x_0 < 1, y_0 \geq 1 \\ 1 & x_0 \geq 1, y_0 \geq 1 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -1.5 \text{ ó } y_0 < -7 \text{ ó } -1.5 \leq x_0 < 5, -7 \leq y_0 < -2 - 1x_0 \\ 0.024x_0y_0 + 0.047x_0 + 0.012x_0^2 + 0.047y_0 + 0.012y_0^2 + 0.047 & -1.5 \leq x_0 < 5, -2 - 1x_0 \leq y_0 < -0.5 \\ 0.166y_0 + 0.012y_0^2 + 0.58 & x_0 \geq 5, -7 \leq y_0 < -0.5 \\ 0.024x_0y_0 + 0.047x_0 + 0.012x_0^2 + 0.024y_0 - 0.012y_0^2 + 0.041 & -1.5 \leq x_0 < 5, -0.5 \leq y_0 < 1 + 1x_0 \\ 0.142y_0 - 0.012y_0^2 + 0.574 & x_0 \geq 5, -0.5 \leq y_0 < 6 \\ 0.071x_0 + 0.024x_0^2 + 0.053 & -1.5 \leq x_0 < 5, y_0 \geq 1 + 1x_0 \\ 1 & x_0 \geq 5, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte 75942315:

- Ejercicio 1:

$$k = 0.017 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -10 \text{ ó } -8 \leq x_0 < 3, -10 \leq y_0 < -7 - 1x_0 \\ 0.017x_0y_0 + 0.116x_0 + 0.008x_0^2 + 0.116y_0 + 0.008y_0^2 + 0.405 & -8 \leq x_0 < 3, -7 - 1x_0 \leq y_0 < 1 \\ 0.165y_0 + 0.008y_0^2 + 0.826 & x_0 \geq 3, -10 \leq y_0 < 1 \\ 0.132x_0 + 0.008x_0^2 + 0.529 & -8 \leq x_0 < 3, y_0 \geq 1 \\ 1 & x_0 \geq 3, y_0 \geq 1 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -4.5 \text{ ó } -8 \leq x_0 < -2.5, -4.5 \leq y_0 < -7 - 1x_0 \\ 0.033x_0y_0 + 0.231x_0 + 0.017x_0^2 + 0.231y_0 + 0.017y_0^2 + 0.81 & -8 \leq x_0 < -2.5, -7 - 1x_0 \leq y_0 < 1 \\ 0.033x_0y_0 + 0.066x_0 - 0.017x_0^2 + 0.231y_0 + 0.017y_0^2 + 0.603 & -2.5 \leq x_0 < 3, -2 + 1x_0 \leq y_0 < 1 \\ 0.298y_0 + 0.033y_0^2 + 0.669 & x_0 \geq 3, -4.5 \leq y_0 < 1 \\ 0.264x_0 + 0.017x_0^2 + 1.058 & -8 \leq x_0 < -2.5, y_0 \geq 1 \\ 0.099x_0 - 0.017x_0^2 + 0.851 & -2.5 \leq x_0 < 3, y_0 \geq 1 \\ 1 & x_0 \geq 3, y_0 \geq 1 \end{cases}$$

Número de DNI/pasaporte 75944203:

- Ejercicio 1:

$$k = 0.062 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -2 \text{ ó } y_0 < -5 \text{ ó } -2 \leq x_0 < 2, -5 \leq y_0 < -1 - 2x_0 \\ 0.062x_0y_0 + 0.062x_0 + 0.062x_0^2 + 0.031y_0 + 0.016y_0^2 + 0.016 & -2 \leq x_0 < 2, -1 - 2x_0 \leq y_0 < 3 \\ 0.156y_0 + 0.016y_0^2 + 0.391 & x_0 \geq 2, -5 \leq y_0 < 3 \\ 0.25x_0 + 0.062x_0^2 + 0.25 & -2 \leq x_0 < 2, y_0 \geq 3 \\ 1 & x_0 \geq 2, y_0 \geq 3 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 0.5 \text{ ó } y_0 < -5 \text{ ó } 0.5 \leq x_0 < 4, -5 \leq y_0 < -1 - 1x_0 \\ 0.082x_0y_0 + 0.082x_0 + 0.041x_0^2 + 0.082y_0 + 0.041y_0^2 + 0.041 & 0.5 \leq x_0 < 4, -1 - 1x_0 \leq y_0 < -1.5 \\ 0.408y_0 + 0.041y_0^2 + 1.02 & x_0 \geq 4, -5 \leq y_0 < -1.5 \\ 0.082x_0y_0 + 0.082x_0 + 0.041x_0^2 - 0.163y_0 - 0.041y_0^2 - 0.143 & 0.5 \leq x_0 < 4, -1.5 \leq y_0 < -2 + 1x_0 \\ 0.163y_0 - 0.041y_0^2 + 0.837 & x_0 \geq 4, -1.5 \leq y_0 < 2 \\ -0.082x_0 + 0.082x_0^2 + 0.02 & 0.5 \leq x_0 < 4, y_0 \geq -2 + 1x_0 \\ 1 & x_0 \geq 4, y_0 \geq 2 \end{cases}$$

Número de DNI/pasaporte 75944835:

- Ejercicio 1:

$$k = 0.016 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -7 \\ 0.016x_0y_0 + 0.109x_0 + 0.023y_0 - 0.004y_0^2 + 0.355 & -5 \leq x_0 < 3, -7 \leq y_0 < 3 + 2x_0 \\ 0.156x_0 + 0.016x_0^2 + 0.391 & -5 \leq x_0 < 3, y_0 \geq 3 + 2x_0 \\ 0.07y_0 - 0.004y_0^2 + 0.684 & x_0 \geq 3, -7 \leq y_0 < 9 \\ 1 & x_0 \geq 3, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -10 \\ 0.02x_0y_0 + 0.204x_0 - 0.041y_0 - 0.01y_0^2 + 0.612 & -8 \leq x_0 < -1, -10 \leq y_0 < -2 + 1x_0 \\ 0.163x_0 + 0.01x_0^2 + 0.653 & -8 \leq x_0 < -1, y_0 \geq -2 + 1x_0 \\ 0.122x_0 - 0.01x_0^2 - 0.122y_0 - 0.02y_0^2 + 0.449 & -1 \leq x_0 < 6, -4 - 1x_0 \leq y_0 < -3 \\ 0.122x_0 - 0.01x_0^2 + 0.633 & -1 \leq x_0 < 6, y_0 \geq -3 \\ -0.122y_0 - 0.02y_0^2 + 0.816 & x_0 \geq 6, -10 \leq y_0 < -3 \\ 1 & x_0 \geq 6, y_0 \geq -3 \end{cases}$$

Número de DNI/pasaporte 76068662:

- Ejercicio 1:

$$k = 0.02 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -5 \text{ ó } 0 \leq x_0 < 7, -5 \leq y_0 < 9 - 2x_0 \\ 0.02x_0y_0 - 0.184x_0 + 0.02x_0^2 - 0.092y_0 + 0.005y_0^2 + 0.413 & 0 \leq x_0 < 7, 9 - 2x_0 \leq y_0 < 9 \\ 0.051y_0 + 0.005y_0^2 + 0.128 & x_0 \geq 7, -5 \leq y_0 < 9 \\ 0x_0 + 0.02x_0^2 + 0 & 0 \leq x_0 < 7, y_0 \geq 9 \\ 1 & x_0 \geq 7, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -2.5 \text{ ó } -3 \leq x_0 < 3.5, -2.5 \leq y_0 < 1 - 1x_0 \\ 0.024x_0y_0 - 0.024x_0 + 0.012x_0^2 - 0.024y_0 + 0.012y_0^2 + 0.012 & -3 \leq x_0 < 3.5, 1 - 1x_0 \leq y_0 < 4 \\ 0.024x_0y_0 + 0.142x_0 - 0.012x_0^2 - 0.024y_0 + 0.012y_0^2 - 0.278 & 3.5 \leq x_0 < 10, -6 + 1x_0 \leq y_0 < 4 \\ 0.118y_0 + 0.024y_0^2 + 0.148 & x_0 \geq 10, -2.5 \leq y_0 < 4 \\ 0.071x_0 + 0.012x_0^2 + 0.107 & -3 \leq x_0 < 3.5, y_0 \geq 4 \\ 0.237x_0 - 0.012x_0^2 - 0.183 & 3.5 \leq x_0 < 10, y_0 \geq 4 \\ 1 & x_0 \geq 10, y_0 \geq 4 \end{cases}$$

Número de DNI/pasaporte 76627887:

- Ejercicio 1:

$$k = 0.031 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -6 \\ 0.031x_0y_0 - 0.188x_0 - 0.062x_0^2 + 0.094y_0 + 0 & -3 \leq x_0 < 1, 6 + 4x_0 \leq y_0 < 10 \\ 0.047y_0 + 0.004y_0^2 + 0.141 & x_0 \geq -1.5 + \frac{y_0}{4}, -6 \leq y_0 < 10 \\ 0.125x_0 - 0.062x_0^2 + 0.938 & -3 \leq x_0 < 1, y_0 \geq 10 \\ 1 & x_0 \geq 1, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -2 \text{ ó } y_0 < -9 \\ 0.028x_0y_0 + 0.194x_0 - 0.014x_0^2 + 0.056y_0 + 0.444 & -2 \leq x_0 < 4, -7 + 1x_0 \leq y_0 < 1 - 1x_0 \\ 0.25y_0 + 0.014y_0^2 + 1.125 & x_0 \geq 7 + \frac{y_0}{1}, -9 \leq y_0 < -3 \\ 0.083y_0 - 0.014y_0^2 + 0.875 & x_0 \geq 4, -3 \leq y_0 < 3 \\ 0.222x_0 - 0.028x_0^2 + 0.083y_0 - 0.014y_0^2 + 0.431 & -2 \leq x_0 < 4, 1 - 1x_0 \geq y_0 < 3 \\ 0.222x_0 - 0.028x_0^2 + 0.556 & -2 \leq x_0 < 4, y_0 \geq 3 \\ 1 & x_0 \geq 4, y_0 \geq 3 \end{cases}$$

Número de DNI/pasaporte 76653137:

- Ejercicio 1:

$$k = 0.1 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < 0 \\ 0.1x_0y_0 - 0x_0 - 0y_0 - 0.01y_0^2 + 0 & 0 \leq x_0 < 2, 0 \leq y_0 < 0 + 5x_0 \\ 0x_0 + 0.25x_0^2 + 0 & 0 \leq x_0 < 2, y_0 \geq 0 + 5x_0 \\ 0.2y_0 - 0.01y_0^2 + 0 & x_0 \geq 2, 0 \leq y_0 < 10 \\ 1 & x_0 \geq 2, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -9 \text{ ó } y_0 < -8 \\ 0.016x_0y_0 + 0.125x_0 + 0.016y_0 - 0.008y_0^2 + 0.625 & -9 \leq x_0 < -1, -8 \leq y_0 < 1 + 1x_0 \\ 0.141x_0 + 0.008x_0^2 + 0.633 & -9 \leq x_0 < -1, y_0 \geq 1 + 1x_0 \\ 0.109x_0 - 0.008x_0^2 + 0y_0 - 0.016y_0^2 + 0.617 & -1 \leq x_0 < 7, -1 - 1x_0 \leq y_0 < 0 \\ 0.109x_0 - 0.008x_0^2 + 0.617 & -1 \leq x_0 < 7, y_0 \geq 0 \\ 0y_0 - 0.016y_0^2 + 1 & x_0 \geq 7, -8 \leq y_0 < 0 \\ 1 & x_0 \geq 7, y_0 \geq 0 \end{cases}$$

Número de DNI/pasaporte 77021441:

- Ejercicio 1:

$$k = 0.041 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -5 \\ 0.041x_0y_0 + 0.041x_0 - 0.02x_0^2 + 0.163y_0 + 0.49 & -4 \leq x_0 < 3, -1 + 1x_0 \leq y_0 < 2 \\ 0.204y_0 + 0.02y_0^2 + 0.51 & x_0 \geq 1 + \frac{y_0}{1}, -5 \leq y_0 < 2 \\ 0.122x_0 - 0.02x_0^2 + 0.816 & -4 \leq x_0 < 3, y_0 \geq 2 \\ 1 & x_0 \geq 3, y_0 \geq 2 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -5 \\ 0.082x_0y_0 + 0.082x_0 - 0.041x_0^2 + 0.327y_0 + 0.98 & -4 \leq x_0 < -0.5, -1 + 1x_0 \leq y_0 < -2 - 1x_0 \\ 0.408y_0 + 0.041y_0^2 + 1.02 & x_0 \geq 1 + \frac{y_0}{1}, -5 \leq y_0 < -1.5 \\ 0.163y_0 - 0.041y_0^2 + 0.837 & x_0 \geq -0.5, -1.5 \leq y_0 < 2 \\ -0.082x_0 - 0.082x_0^2 + 0.163y_0 - 0.041y_0^2 + 0.816 & -4 \leq x_0 < -0.5, -2 - 1x_0 \geq y_0 < 2 \\ -0.082x_0 - 0.082x_0^2 + 0.98 & -4 \leq x_0 < -0.5, y_0 \geq 2 \\ 1 & x_0 \geq -0.5, y_0 \geq 2 \end{cases}$$

Número de DNI/pasaporte 77021735:

- Ejercicio 1:

$$k = 0.017 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -8 \text{ ó } -8 \leq x_0 < 3, -8 \leq y_0 < -5 - 1x_0 \\ 0.017x_0y_0 + 0.083x_0 + 0.008x_0^2 + 0.083y_0 + 0.008y_0^2 + 0.207 & -8 \leq x_0 < 3, -5 - 1x_0 \leq y_0 < 3 \\ 0.132y_0 + 0.008y_0^2 + 0.529 & x_0 \geq 3, -8 \leq y_0 < 3 \\ 0.132x_0 + 0.008x_0^2 + 0.529 & -8 \leq x_0 < 3, y_0 \geq 3 \\ 1 & x_0 \geq 3, y_0 \geq 3 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -2.5 \text{ ó } -8 \leq x_0 < -2.5, -2.5 \leq y_0 < -5 - 1x_0 \\ 0.033x_0y_0 + 0.165x_0 + 0.017x_0^2 + 0.165y_0 + 0.017y_0^2 + 0.413 & -8 \leq x_0 < -2.5, -5 - 1x_0 \leq y_0 < 3 \\ 0.033x_0y_0 - 0x_0 - 0.017x_0^2 + 0.165y_0 + 0.017y_0^2 + 0.207 & -2.5 \leq x_0 < 3, 0 + 1x_0 \leq y_0 < 3 \\ 0.165y_0 + 0.033y_0^2 + 0.207 & x_0 \geq 3, -2.5 \leq y_0 < 3 \\ 0.264x_0 + 0.017x_0^2 + 1.058 & -8 \leq x_0 < -2.5, y_0 \geq 3 \\ 0.099x_0 - 0.017x_0^2 + 0.851 & -2.5 \leq x_0 < 3, y_0 \geq 3 \\ 1 & x_0 \geq 3, y_0 \geq 3 \end{cases}$$

Número de DNI/pasaporte 77024234:

- Ejercicio 1:

$$k = 0.056 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < 0 \\ 0.056x_0y_0 - 0.056x_0 - 0.028x_0^2 + 0.056y_0 - 0.028 & -1 \leq x_0 < 5, 1 + 1x_0 \leq y_0 < 6 \\ 0y_0 + 0.028y_0^2 + 0 & x_0 \geq -1 + \frac{y_0}{1}, 0 \leq y_0 < 6 \\ 0.278x_0 - 0.028x_0^2 + 0.306 & -1 \leq x_0 < 5, y_0 \geq 6 \\ 1 & x_0 \geq 5, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 2 \text{ ó } y_0 < 0 \text{ ó } 2 \leq x_0 < 5, 0 \leq y_0 < 5 - 1x_0 \\ 0.111x_0y_0 - 0.556x_0 + 0.056x_0^2 - 0.556y_0 + 0.056y_0^2 + 1.389 & 2 \leq x_0 < 5, 5 - 1x_0 \leq y_0 < 3 \\ 0y_0 + 0.056y_0^2 + 0 & x_0 \geq 5, 0 \leq y_0 < 3 \\ 0.111x_0y_0 - 0.556x_0 + 0.056x_0^2 + 0.111y_0 - 0.056y_0^2 + 0.389 & 2 \leq x_0 < 5, 3 \leq y_0 < 1 + 1x_0 \\ 0.667y_0 - 0.056y_0^2 - 1 & x_0 \geq 5, 3 \leq y_0 < 6 \\ -0.444x_0 + 0.111x_0^2 + 0.444 & 2 \leq x_0 < 5, y_0 \geq 1 + 1x_0 \\ 1 & x_0 \geq 5, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte 77137836:

- Ejercicio 1:

$$k = 0.062 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -2 \text{ ó } -1 \leq x_0 < 3, -2 \leq y_0 < 4 - 2x_0 \\ 0.062x_0y_0 - 0.25x_0 + 0.062x_0^2 - 0.125y_0 + 0.016y_0^2 + 0.25 & -1 \leq x_0 < 3, 4 - 2x_0 \leq y_0 < 6 \\ 0.062y_0 + 0.016y_0^2 + 0.062 & x_0 \geq 3, -2 \leq y_0 < 6 \\ 0.125x_0 + 0.062x_0^2 + 0.062 & -1 \leq x_0 < 3, y_0 \geq 6 \\ 1 & x_0 \geq 3, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < 0 \\ 0.111x_0y_0 - 0.333x_0 - 0.056x_0^2 + 0.333y_0 - 0.5 & -3 \leq x_0 < 0, 3 + 1x_0 \leq y_0 < 3 - 1x_0 \\ 0y_0 + 0.056y_0^2 + 0 & x_0 \geq -3 + \frac{y_0}{1}, 0 \leq y_0 < 3 \\ 0.667y_0 - 0.056y_0^2 - 1 & x_0 \geq 0, 3 \leq y_0 < 6 \\ 0x_0 - 0.111x_0^2 + 0.667y_0 - 0.056y_0^2 - 1 & -3 \leq x_0 < 0, 3 - 1x_0 \geq y_0 < 6 \\ 0x_0 - 0.111x_0^2 + 1 & -3 \leq x_0 < 0, y_0 \geq 6 \\ 1 & x_0 \geq 0, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte 77140487:

- Ejercicio 1:

$$k = 0.08 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -3 \\ 0.08x_0y_0 + 0.24x_0 - 0.24y_0 - 0.04y_0^2 - 0.36 & 0 \leq x_0 < 5, -3 \leq y_0 < -3 + 1x_0 \\ 0x_0 + 0.04x_0^2 + 0 & 0 \leq x_0 < 5, y_0 \geq -3 + 1x_0 \\ 0.16y_0 - 0.04y_0^2 + 0.84 & x_0 \geq 5, -3 \leq y_0 < 2 \\ 1 & x_0 \geq 5, y_0 \geq 2 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -3 \\ 0.16x_0y_0 + 0.48x_0 - 0.08x_0^2 - 0y_0 + 0 & 0 \leq x_0 < 2.5, -3 + 1x_0 \leq y_0 < 2 - 1x_0 \\ 0.48y_0 + 0.08y_0^2 + 0.72 & x_0 \geq 3 + \frac{y_0}{1}, -3 \leq y_0 < -0.5 \\ 0.32y_0 - 0.08y_0^2 + 0.68 & x_0 \geq 2.5, -0.5 \leq y_0 < 2 \\ 0.8x_0 - 0.16x_0^2 + 0.32y_0 - 0.08y_0^2 - 0.32 & 0 \leq x_0 < 2.5, 2 - 1x_0 \geq y_0 < 2 \\ 0.8x_0 - 0.16x_0^2 + 0 & 0 \leq x_0 < 2.5, y_0 \geq 2 \\ 1 & x_0 \geq 2.5, y_0 \geq 2 \end{cases}$$

Número de DNI/pasaporte 77141226:

- Ejercicio 1:

$$k = 0.014 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < -8 \text{ ó } -7 \leq x_0 < 5, -8 \leq y_0 < -3 - 1x_0 \\ 0.014x_0y_0 + 0.042x_0 + 0.007x_0^2 + 0.042y_0 + 0.007y_0^2 + 0.062 & -7 \leq x_0 < 5, -3 - 1x_0 \leq y_0 < 4 \\ 0.111y_0 + 0.007y_0^2 + 0.444 & x_0 \geq 5, -8 \leq y_0 < 4 \\ 0.097x_0 + 0.007x_0^2 + 0.34 & -7 \leq x_0 < 5, y_0 \geq 4 \\ 1 & x_0 \geq 5, y_0 \geq 4 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < -2 \text{ ó } -7 \leq x_0 < -1, -2 \leq y_0 < -3 - 1x_0 \\ 0.028x_0y_0 + 0.083x_0 + 0.014x_0^2 + 0.083y_0 + 0.014y_0^2 + 0.125 & -7 \leq x_0 < -1, -3 - 1x_0 \leq y_0 < 4 \\ 0.028x_0y_0 + 0.028x_0 - 0.014x_0^2 + 0.083y_0 + 0.014y_0^2 + 0.097 & -1 \leq x_0 < 5, -1 + 1x_0 \leq y_0 < 4 \\ 0.111y_0 + 0.028y_0^2 + 0.111 & x_0 \geq 5, -2 \leq y_0 < 4 \\ 0.194x_0 + 0.014x_0^2 + 0.681 & -7 \leq x_0 < -1, y_0 \geq 4 \\ 0.139x_0 - 0.014x_0^2 + 0.653 & -1 \leq x_0 < 5, y_0 \geq 4 \\ 1 & x_0 \geq 5, y_0 \geq 4 \end{cases}$$

Número de DNI/pasaporte 77144656:

- Ejercicio 1:

$$k = 0.25 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -2 \text{ ó } 0 \leq x_0 < 1, -2 \leq y_0 < 6 - 8x_0 \\ 0.25x_0y_0 - 1.5x_0 + 1x_0^2 - 0.188y_0 + 0.016y_0^2 + 0.562 & 0 \leq x_0 < 1, 6 - 8x_0 \leq y_0 < 6 \\ 0.062y_0 + 0.016y_0^2 + 0.062 & x_0 \geq 1, -2 \leq y_0 < 6 \\ 0x_0 + 1x_0^2 + 0 & 0 \leq x_0 < 1, y_0 \geq 6 \\ 1 & x_0 \geq 1, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -1 \text{ ó } -1 \leq x_0 < 4, -1 \leq y_0 < 3 - 1x_0 \\ 0.04x_0y_0 - 0.12x_0 + 0.02x_0^2 - 0.12y_0 + 0.02y_0^2 + 0.18 & -1 \leq x_0 < 4, 3 - 1x_0 \leq y_0 < 4 \\ 0.04x_0y_0 + 0.2x_0 - 0.02x_0^2 - 0.12y_0 + 0.02y_0^2 - 0.46 & 4 \leq x_0 < 9, -5 + 1x_0 \leq y_0 < 4 \\ 0.08y_0 + 0.04y_0^2 + 0.04 & x_0 \geq 9, -1 \leq y_0 < 4 \\ 0.04x_0 + 0.02x_0^2 + 0.02 & -1 \leq x_0 < 4, y_0 \geq 4 \\ 0.36x_0 - 0.02x_0^2 - 0.62 & 4 \leq x_0 < 9, y_0 \geq 4 \\ 1 & x_0 \geq 9, y_0 \geq 4 \end{cases}$$

Número de DNI/pasaporte 77147671:

- Ejercicio 1:

$$k = 0.02 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < -9 \\ 0.02x_0y_0 + 0.04x_0 - 0.01x_0^2 + 0.14y_0 + 0.77 & -7 \leq x_0 < 3, -2 + 1x_0 \leq y_0 < 1 \\ 0.18y_0 + 0.01y_0^2 + 0.81 & x_0 \geq 2 + \frac{y_0}{1}, -9 \leq y_0 < 1 \\ 0.06x_0 - 0.01x_0^2 + 0.91 & -7 \leq x_0 < 3, y_0 \geq 1 \\ 1 & x_0 \geq 3, y_0 \geq 1 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -2 \text{ ó } y_0 < -9 \text{ ó } -2 \leq x_0 < 3, -9 \leq y_0 < -6 - 1x_0 \\ 0.04x_0y_0 + 0.24x_0 + 0.02x_0^2 + 0.24y_0 + 0.02y_0^2 + 0.72 & -2 \leq x_0 < 3, -6 - 1x_0 \leq y_0 < -4 \\ 0.36y_0 + 0.02y_0^2 + 1.62 & x_0 \geq 3, -9 \leq y_0 < -4 \\ 0.04x_0y_0 + 0.24x_0 + 0.02x_0^2 - 0.08y_0 - 0.02y_0^2 + 0.08 & -2 \leq x_0 < 3, -4 \leq y_0 < -2 + 1x_0 \\ 0.04y_0 - 0.02y_0^2 + 0.98 & x_0 \geq 3, -4 \leq y_0 < 1 \\ 0.16x_0 + 0.04x_0^2 + 0.16 & -2 \leq x_0 < 3, y_0 \geq -2 + 1x_0 \\ 1 & x_0 \geq 3, y_0 \geq 1 \end{cases}$$

Número de DNI/pasaporte 77149477:

- Ejercicio 1:

$$k = 0.025 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -4 \text{ ó } -3 \leq x_0 < 6, -4 \leq y_0 < 2 - 1x_0 \\ 0.025x_0y_0 - 0.049x_0 + 0.012x_0^2 - 0.049y_0 + 0.012y_0^2 + 0.049 & -3 \leq x_0 < 6, 2 - 1x_0 \leq y_0 < 5 \\ 0.099y_0 + 0.012y_0^2 + 0.198 & x_0 \geq 6, -4 \leq y_0 < 5 \\ 0.074x_0 + 0.012x_0^2 + 0.111 & -3 \leq x_0 < 6, y_0 \geq 5 \\ 1 & x_0 \geq 6, y_0 \geq 5 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < 0.5 \text{ ó } -3 \leq x_0 < 1.5, 0.5 \leq y_0 < 2 - 1x_0 \\ 0.049x_0y_0 - 0.099x_0 + 0.025x_0^2 - 0.099y_0 + 0.025y_0^2 + 0.099 & -3 \leq x_0 < 1.5, 2 - 1x_0 \leq y_0 < 5 \\ 0.049x_0y_0 + 0.049x_0 - 0.025x_0^2 - 0.099y_0 + 0.025y_0^2 - 0.012 & 1.5 \leq x_0 < 6, -1 + 1x_0 \leq y_0 < 5 \\ -0.049y_0 + 0.049y_0^2 + 0.012 & x_0 \geq 6, 0.5 \leq y_0 < 5 \\ 0.148x_0 + 0.025x_0^2 + 0.222 & -3 \leq x_0 < 1.5, y_0 \geq 5 \\ 0.296x_0 - 0.025x_0^2 + 0.111 & 1.5 \leq x_0 < 6, y_0 \geq 5 \\ 1 & x_0 \geq 6, y_0 \geq 5 \end{cases}$$

Número de DNI/pasaporte 77186763:

- Ejercicio 1:

$$k = 0.1 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -2 \\ 0.1x_0y_0 + 0.2x_0 - 0.04y_0 - 0.01y_0^2 - 0.04 & 0 \leq x_0 < 2, -2 \leq y_0 < -2 + 5x_0 \\ 0x_0 + 0.25x_0^2 + 0 & 0 \leq x_0 < 2, y_0 \geq -2 + 5x_0 \\ 0.16y_0 - 0.01y_0^2 + 0.36 & x_0 \geq 2, -2 \leq y_0 < 8 \\ 1 & x_0 \geq 2, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -3 \\ 0.033x_0y_0 + 0.099x_0 + 0.033y_0 - 0.017y_0^2 + 0.248 & -4 \leq x_0 < 1.5, -3 \leq y_0 < 1 + 1x_0 \\ 0.132x_0 + 0.017x_0^2 + 0.264 & -4 \leq x_0 < 1.5, y_0 \geq 1 + 1x_0 \\ 0.231x_0 - 0.017x_0^2 + 0.165y_0 - 0.033y_0^2 - 0.017 & 1.5 \leq x_0 < 7, 4 - 1x_0 \leq y_0 < 2.5 \\ 0.231x_0 - 0.017x_0^2 + 0.19 & 1.5 \leq x_0 < 7, y_0 \geq 2.5 \\ 0.165y_0 - 0.033y_0^2 + 0.793 & x_0 \geq 7, -3 \leq y_0 < 2.5 \\ 1 & x_0 \geq 7, y_0 \geq 2.5 \end{cases}$$

Número de DNI/pasaporte 77376378:

- Ejercicio 1:

$$k = 0.01 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < -9 \\ 0.01x_0y_0 + 0.092x_0 + 0.01y_0 - 0.005y_0^2 + 0.505 & -10 \leq x_0 < 4, -9 \leq y_0 < 1 + 1x_0 \\ 0.102x_0 + 0.005x_0^2 + 0.51 & -10 \leq x_0 < 4, y_0 \geq 1 + 1x_0 \\ 0.051y_0 - 0.005y_0^2 + 0.872 & x_0 \geq 4, -9 \leq y_0 < 5 \\ 1 & x_0 \geq 4, y_0 \geq 5 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < -9 \\ 0.02x_0y_0 - 0.02x_0 - 0.01x_0^2 + 0.204y_0 + 0.816 & -10 \leq x_0 < -3, 1 + 1x_0 \leq y_0 < -5 - 1x_0 \\ 0.184y_0 + 0.01y_0^2 + 0.827 & x_0 \geq -1 + \frac{y_0}{1}, -9 \leq y_0 < -2 \\ 0.102y_0 - 0.01y_0^2 + 0.745 & x_0 \geq -3, -2 \leq y_0 < 5 \\ -0.122x_0 - 0.02x_0^2 + 0.102y_0 - 0.01y_0^2 + 0.561 & -10 \leq x_0 < -3, -5 - 1x_0 \geq y_0 < 5 \\ -0.122x_0 - 0.02x_0^2 + 0.816 & -10 \leq x_0 < -3, y_0 \geq 5 \\ 1 & x_0 \geq -3, y_0 \geq 5 \end{cases}$$

Número de DNI/pasaporte 77381011:

- Ejercicio 1:

$$k = 0.017 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -9 \text{ ó } y_0 < -4 \\ 0.017x_0y_0 - 0.083x_0 - 0.008x_0^2 + 0.149y_0 - 0.074 & -9 \leq x_0 < 2, 5 + 1x_0 \leq y_0 < 7 \\ 0.066y_0 + 0.008y_0^2 + 0.132 & x_0 \geq -5 + \frac{y_0}{1}, -4 \leq y_0 < 7 \\ 0.033x_0 - 0.008x_0^2 + 0.967 & -9 \leq x_0 < 2, y_0 \geq 7 \\ 1 & x_0 \geq 2, y_0 \geq 7 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -3.5 \text{ ó } y_0 < -4 \text{ ó } -3.5 \leq x_0 < 2, -4 \leq y_0 < -2 - 1x_0 \\ 0.033x_0y_0 + 0.066x_0 + 0.017x_0^2 + 0.066y_0 + 0.017y_0^2 + 0.066 & -3.5 \leq x_0 < 2, -2 - 1x_0 \leq y_0 < 1.5 \\ 0.132y_0 + 0.017y_0^2 + 0.264 & x_0 \geq 2, -4 \leq y_0 < 1.5 \\ 0.033x_0y_0 + 0.066x_0 + 0.017x_0^2 + 0.165y_0 - 0.017y_0^2 - 0.008 & -3.5 \leq x_0 < 2, 1.5 \leq y_0 < 5 + 1x_0 \\ 0.231y_0 - 0.017y_0^2 + 0.19 & x_0 \geq 2, 1.5 \leq y_0 < 7 \\ 0.231x_0 + 0.033x_0^2 + 0.405 & -3.5 \leq x_0 < 2, y_0 \geq 5 + 1x_0 \\ 1 & x_0 \geq 2, y_0 \geq 7 \end{cases}$$

Número de DNI/pasaporte 77382235:

- Ejercicio 1:

$$k = 0.012 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -8 \\ 0.012x_0y_0 + 0.095x_0 - 0.036y_0 - 0.006y_0^2 + 0.095 & -5 \leq x_0 < 8, -8 \leq y_0 < -3 + 1x_0 \\ 0.059x_0 + 0.006x_0^2 + 0.148 & -5 \leq x_0 < 8, y_0 \geq -3 + 1x_0 \\ 0.059y_0 - 0.006y_0^2 + 0.852 & x_0 \geq 8, -8 \leq y_0 < 5 \\ 1 & x_0 \geq 8, y_0 \geq 5 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -8 \\ 0.024x_0y_0 + 0.071x_0 - 0.012x_0^2 + 0.118y_0 + 0.651 & -5 \leq x_0 < 1.5, -3 + 1x_0 \leq y_0 < 0 - 1x_0 \\ 0.189y_0 + 0.012y_0^2 + 0.757 & x_0 \geq 3 + \frac{y_0}{1}, -8 \leq y_0 < -1.5 \\ 0.118y_0 - 0.012y_0^2 + 0.704 & x_0 \geq 1.5, -1.5 \leq y_0 < 5 \\ 0.071x_0 - 0.024x_0^2 + 0.118y_0 - 0.012y_0^2 + 0.651 & -5 \leq x_0 < 1.5, 0 - 1x_0 \geq y_0 < 5 \\ 0.071x_0 - 0.024x_0^2 + 0.947 & -5 \leq x_0 < 1.5, y_0 \geq 5 \\ 1 & x_0 \geq 1.5, y_0 \geq 5 \end{cases}$$

Número de DNI/pasaporte 77385402:

- Ejercicio 1:

$$k = 0.006 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < -9 \\ 0.006x_0y_0 - 0.006x_0 - 0.003x_0^2 + 0.062y_0 + 0.247 & -10 \leq x_0 < 8, 1 + 1x_0 \leq y_0 < 9 \\ 0.056y_0 + 0.003y_0^2 + 0.25 & x_0 \geq -1 + \frac{y_0}{1}, -9 \leq y_0 < 9 \\ 0.049x_0 - 0.003x_0^2 + 0.802 & -10 \leq x_0 < 8, y_0 \geq 9 \\ 1 & x_0 \geq 8, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < -9 \\ 0.012x_0y_0 - 0.012x_0 - 0.006x_0^2 + 0.123y_0 + 0.494 & -10 \leq x_0 < -1, 1 + 1x_0 \leq y_0 < -1 - 1x_0 \\ 0.111y_0 + 0.006y_0^2 + 0.5 & x_0 \geq -1 + \frac{y_0}{1}, -9 \leq y_0 < 0 \\ 0.111y_0 - 0.006y_0^2 + 0.5 & x_0 \geq -1, 0 \leq y_0 < 9 \\ -0.025x_0 - 0.012x_0^2 + 0.111y_0 - 0.006y_0^2 + 0.488 & -10 \leq x_0 < -1, -1 - 1x_0 \geq y_0 < 9 \\ -0.025x_0 - 0.012x_0^2 + 0.988 & -10 \leq x_0 < -1, y_0 \geq 9 \\ 1 & x_0 \geq -1, y_0 \geq 9 \end{cases}$$

Número de DNI/pasaporte 77391466:

- Ejercicio 1:

$$k = 0.031 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -3 \\ 0.031x_0y_0 + 0.094x_0 + 0.062y_0 - 0.016y_0^2 + 0.328 & -5 \leq x_0 < 3, -3 \leq y_0 < 2 + 1x_0 \\ 0.156x_0 + 0.016x_0^2 + 0.391 & -5 \leq x_0 < 3, y_0 \geq 2 + 1x_0 \\ 0.156y_0 - 0.016y_0^2 + 0.609 & x_0 \geq 3, -3 \leq y_0 < 5 \\ 1 & x_0 \geq 3, y_0 \geq 5 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -5 \text{ ó } y_0 < -3 \\ 0.062x_0y_0 + 0.188x_0 + 0.125y_0 - 0.031y_0^2 + 0.656 & -5 \leq x_0 < -1, -3 \leq y_0 < 2 + 1x_0 \\ 0.312x_0 + 0.031x_0^2 + 0.781 & -5 \leq x_0 < -1, y_0 \geq 2 + 1x_0 \\ 0.188x_0 - 0.031x_0^2 + 0.125y_0 - 0.062y_0^2 + 0.656 & -1 \leq x_0 < 3, 0 - 1x_0 \leq y_0 < 1 \\ 0.188x_0 - 0.031x_0^2 + 0.719 & -1 \leq x_0 < 3, y_0 \geq 1 \\ 0.125y_0 - 0.062y_0^2 + 0.938 & x_0 \geq 3, -3 \leq y_0 < 1 \\ 1 & x_0 \geq 3, y_0 \geq 1 \end{cases}$$

Número de DNI/pasaporte 77391467:

- Ejercicio 1:

$$k = 0.017 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < -1 \text{ ó } -7 \leq x_0 < 4, -1 \leq y_0 < 3 - 1x_0 \\ 0.017x_0y_0 - 0.05x_0 + 0.008x_0^2 - 0.05y_0 + 0.008y_0^2 + 0.074 & -7 \leq x_0 < 4, 3 - 1x_0 \leq y_0 < 10 \\ 0.017y_0 + 0.008y_0^2 + 0.008 & x_0 \geq 4, -1 \leq y_0 < 10 \\ 0.116x_0 + 0.008x_0^2 + 0.405 & -7 \leq x_0 < 4, y_0 \geq 10 \\ 1 & x_0 \geq 4, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < -1 \\ 0.033x_0y_0 + 0.033x_0 + 0.198y_0 - 0.017y_0^2 + 0.215 & -7 \leq x_0 < -1.5, -1 \leq y_0 < 6 + 1x_0 \\ 0.231x_0 + 0.017x_0^2 + 0.81 & -7 \leq x_0 < -1.5, y_0 \geq 6 + 1x_0 \\ 0.132x_0 - 0.017x_0^2 + 0.298y_0 - 0.033y_0^2 + 0.066 & -1.5 \leq x_0 < 4, 3 - 1x_0 \leq y_0 < 4.5 \\ 0.132x_0 - 0.017x_0^2 + 0.736 & -1.5 \leq x_0 < 4, y_0 \geq 4.5 \\ 0.298y_0 - 0.033y_0^2 + 0.331 & x_0 \geq 4, -1 \leq y_0 < 4.5 \\ 1 & x_0 \geq 4, y_0 \geq 4.5 \end{cases}$$

Número de DNI/pasaporte 77392579:

- Ejercicio 1:

$$k = 0.5 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < 0 \text{ ó } -1 \leq x_0 < 1, 0 \leq y_0 < 1 - 1x_0 \\ 0.5x_0y_0 - 0.5x_0 + 0.25x_0^2 - 0.5y_0 + 0.25y_0^2 + 0.25 & -1 \leq x_0 < 1, 1 - 1x_0 \leq y_0 < 2 \\ 0y_0 + 0.25y_0^2 + 0 & x_0 \geq 1, 0 \leq y_0 < 2 \\ 0.5x_0 + 0.25x_0^2 + 0.25 & -1 \leq x_0 < 1, y_0 \geq 2 \\ 1 & x_0 \geq 1, y_0 \geq 2 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < 1 \text{ ó } -1 \leq x_0 < 0, 1 \leq y_0 < 1 - 1x_0 \\ 1x_0y_0 - 1x_0 + 0.5x_0^2 - 1y_0 + 0.5y_0^2 + 0.5 & -1 \leq x_0 < 0, 1 - 1x_0 \leq y_0 < 2 \\ 1x_0y_0 - 1x_0 - 0.5x_0^2 - 1y_0 + 0.5y_0^2 + 0.5 & 0 \leq x_0 < 1, 1 + 1x_0 \leq y_0 < 2 \\ -2y_0 + 1y_0^2 + 1 & x_0 \geq 1, 1 \leq y_0 < 2 \\ 1x_0 + 0.5x_0^2 + 0.5 & -1 \leq x_0 < 0, y_0 \geq 2 \\ 1x_0 - 0.5x_0^2 + 0.5 & 0 \leq x_0 < 1, y_0 \geq 2 \\ 1 & x_0 \geq 1, y_0 \geq 2 \end{cases}$$

Número de DNI/pasaporte 77433255:

- Ejercicio 1:

$$k = 0.012 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -9 \text{ ó } y_0 < -7 \text{ ó } -9 \leq x_0 < 4, -7 \leq y_0 < -3 - 1x_0 \\ 0.012x_0y_0 + 0.036x_0 + 0.006x_0^2 + 0.036y_0 + 0.006y_0^2 + 0.053 & -9 \leq x_0 < 4, -3 - 1x_0 \leq y_0 < 6 \\ 0.083y_0 + 0.006y_0^2 + 0.29 & x_0 \geq 4, -7 \leq y_0 < 6 \\ 0.107x_0 + 0.006x_0^2 + 0.479 & -9 \leq x_0 < 4, y_0 \geq 6 \\ 1 & x_0 \geq 4, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -9 \text{ ó } y_0 < -0.5 \text{ ó } -9 \leq x_0 < -2.5, -0.5 \leq y_0 < -3 - 1x_0 \\ 0.024x_0y_0 + 0.071x_0 + 0.012x_0^2 + 0.071y_0 + 0.012y_0^2 + 0.107 & -9 \leq x_0 < -2.5, -3 - 1x_0 \leq y_0 < 6 \\ 0.024x_0y_0 - 0.047x_0 - 0.012x_0^2 + 0.071y_0 + 0.012y_0^2 - 0.041 & -2.5 \leq x_0 < 4, 2 + 1x_0 \leq y_0 < 6 \\ 0.024y_0 + 0.024y_0^2 + 0.006 & x_0 \geq 4, -0.5 \leq y_0 < 6 \\ 0.213x_0 + 0.012x_0^2 + 0.959 & -9 \leq x_0 < -2.5, y_0 \geq 6 \\ 0.095x_0 - 0.012x_0^2 + 0.811 & -2.5 \leq x_0 < 4, y_0 \geq 6 \\ 1 & x_0 \geq 4, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte 77448841:

- Ejercicio 1:

$$k = 0.008 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -9 \text{ ó } y_0 < -10 \text{ ó } -9 \leq x_0 < 7, -10 \leq y_0 < -3 - 1x_0 \\ 0.008x_0y_0 + 0.023x_0 + 0.004x_0^2 + 0.023y_0 + 0.004y_0^2 + 0.035 & -9 \leq x_0 < 7, -3 - 1x_0 \leq y_0 < 6 \\ 0.078y_0 + 0.004y_0^2 + 0.391 & x_0 \geq 7, -10 \leq y_0 < 6 \\ 0.07x_0 + 0.004x_0^2 + 0.316 & -9 \leq x_0 < 7, y_0 \geq 6 \\ 1 & x_0 \geq 7, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -9 \text{ ó } y_0 < -10 \\ 0.016x_0y_0 + 0.156x_0 - 0.016y_0 - 0.008y_0^2 + 0.625 & -9 \leq x_0 < -1, -10 \leq y_0 < -1 + 1x_0 \\ 0.141x_0 + 0.008x_0^2 + 0.633 & -9 \leq x_0 < -1, y_0 \geq -1 + 1x_0 \\ 0.109x_0 - 0.008x_0^2 - 0.062y_0 - 0.016y_0^2 + 0.555 & -1 \leq x_0 < 7, -3 - 1x_0 \leq y_0 < -2 \\ 0.109x_0 - 0.008x_0^2 + 0.617 & -1 \leq x_0 < 7, y_0 \geq -2 \\ -0.062y_0 - 0.016y_0^2 + 0.938 & x_0 \geq 7, -10 \leq y_0 < -2 \\ 1 & x_0 \geq 7, y_0 \geq -2 \end{cases}$$

Número de DNI/pasaporte 77489290:

- Ejercicio 1:

$$k = 0.007 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < -8 \text{ ó } -10 \leq x_0 < 7, -8 \leq y_0 < -1 - 1x_0 \\ 0.007x_0y_0 + 0.007x_0 + 0.003x_0^2 + 0.007y_0 + 0.003y_0^2 + 0.003 & -10 \leq x_0 < 7, -1 - 1x_0 \leq y_0 < 9 \\ 0.055y_0 + 0.003y_0^2 + 0.221 & x_0 \geq 7, -8 \leq y_0 < 9 \\ 0.069x_0 + 0.003x_0^2 + 0.346 & -10 \leq x_0 < 7, y_0 \geq 9 \\ 1 & x_0 \geq 7, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < 0.5 \text{ ó } -10 \leq x_0 < -1.5, 0.5 \leq y_0 < -1 - 1x_0 \\ 0.014x_0y_0 + 0.014x_0 + 0.007x_0^2 + 0.014y_0 + 0.007y_0^2 + 0.007 & -10 \leq x_0 < -1.5, -1 - 1x_0 \leq y_0 < 9 \\ 0.014x_0y_0 - 0.028x_0 - 0.007x_0^2 + 0.014y_0 + 0.007y_0^2 - 0.024 & -1.5 \leq x_0 < 7, 2 + 1x_0 \leq y_0 < 9 \\ -0.014y_0 + 0.014y_0^2 + 0.003 & x_0 \geq 7, 0.5 \leq y_0 < 9 \\ 0.138x_0 + 0.007x_0^2 + 0.692 & -10 \leq x_0 < -1.5, y_0 \geq 9 \\ 0.097x_0 - 0.007x_0^2 + 0.661 & -1.5 \leq x_0 < 7, y_0 \geq 9 \\ 1 & x_0 \geq 7, y_0 \geq 9 \end{cases}$$

Número de DNI/pasaporte 77553548:

- Ejercicio 1:

$$k = 0.008 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -9 \text{ ó } y_0 < -7 \\ 0.008x_0y_0 + 0.055x_0 + 0.016y_0 - 0.004y_0^2 + 0.301 & -9 \leq x_0 < 7, -7 \leq y_0 < 2 + 1x_0 \\ 0.07x_0 + 0.004x_0^2 + 0.316 & -9 \leq x_0 < 7, y_0 \geq 2 + 1x_0 \\ 0.07y_0 - 0.004y_0^2 + 0.684 & x_0 \geq 7, -7 \leq y_0 < 9 \\ 1 & x_0 \geq 7, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -9 \text{ ó } y_0 < -7 \\ 0.016x_0y_0 + 0.109x_0 + 0.031y_0 - 0.008y_0^2 + 0.602 & -9 \leq x_0 < -1, -7 \leq y_0 < 2 + 1x_0 \\ 0.141x_0 + 0.008x_0^2 + 0.633 & -9 \leq x_0 < -1, y_0 \geq 2 + 1x_0 \\ 0.109x_0 - 0.008x_0^2 + 0.031y_0 - 0.016y_0^2 + 0.602 & -1 \leq x_0 < 7, 0 - 1x_0 \leq y_0 < 1 \\ 0.109x_0 - 0.008x_0^2 + 0.617 & -1 \leq x_0 < 7, y_0 \geq 1 \\ 0.031y_0 - 0.016y_0^2 + 0.984 & x_0 \geq 7, -7 \leq y_0 < 1 \\ 1 & x_0 \geq 7, y_0 \geq 1 \end{cases}$$

Número de DNI/pasaporte 77555560:

- Ejercicio 1:

$$k = 0.111 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -3 \\ 0.111x_0y_0 + 0.333x_0 - 0.056y_0 - 0.028y_0^2 + 0.083 & -1 \leq x_0 < 2, -3 \leq y_0 < -1 + 2x_0 \\ 0.222x_0 + 0.111x_0^2 + 0.111 & -1 \leq x_0 < 2, y_0 \geq -1 + 2x_0 \\ 0.167y_0 - 0.028y_0^2 + 0.75 & x_0 \geq 2, -3 \leq y_0 < 3 \\ 1 & x_0 \geq 2, y_0 \geq 3 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < 0 \text{ ó } -7 \leq x_0 < 1, 0 \leq y_0 < 1 - 1x_0 \\ 0.016x_0y_0 - 0.016x_0 + 0.008x_0^2 - 0.016y_0 + 0.008y_0^2 + 0.008 & -7 \leq x_0 < 1, 1 - 1x_0 \leq y_0 < 8 \\ 0.016x_0y_0 + 0.016x_0 - 0.008x_0^2 - 0.016y_0 + 0.008y_0^2 - 0.008 & 1 \leq x_0 < 9, -1 + 1x_0 \leq y_0 < 8 \\ 0y_0 + 0.016y_0^2 + 0 & x_0 \geq 9, 0 \leq y_0 < 8 \\ 0.109x_0 + 0.008x_0^2 + 0.383 & -7 \leq x_0 < 1, y_0 \geq 8 \\ 0.141x_0 - 0.008x_0^2 + 0.367 & 1 \leq x_0 < 9, y_0 \geq 8 \\ 1 & x_0 \geq 9, y_0 \geq 8 \end{cases}$$

Número de DNI/pasaporte 77556268:

- Ejercicio 1:

$$k = 0.02 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -4 \text{ ó } -3 \leq x_0 < 4, -4 \leq y_0 < 4 - 2x_0 \\ 0.02x_0y_0 - 0.082x_0 + 0.02x_0^2 - 0.041y_0 + 0.005y_0^2 + 0.082 & -3 \leq x_0 < 4, 4 - 2x_0 \leq y_0 < 10 \\ 0.041y_0 + 0.005y_0^2 + 0.082 & x_0 \geq 4, -4 \leq y_0 < 10 \\ 0.122x_0 + 0.02x_0^2 + 0.184 & -3 \leq x_0 < 4, y_0 \geq 10 \\ 1 & x_0 \geq 4, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -2.5 \text{ ó } y_0 < 0 \text{ ó } -2.5 \leq x_0 < 1, 0 \leq y_0 < 1 - 1x_0 \\ 0.082x_0y_0 - 0.082x_0 + 0.041x_0^2 - 0.082y_0 + 0.041y_0^2 + 0.041 & -2.5 \leq x_0 < 1, 1 - 1x_0 \leq y_0 < 3.5 \\ 0y_0 + 0.041y_0^2 + 0 & x_0 \geq 1, 0 \leq y_0 < 3.5 \\ 0.082x_0y_0 - 0.082x_0 + 0.041x_0^2 + 0.49y_0 - 0.041y_0^2 - 0.959 & -2.5 \leq x_0 < 1, 3.5 \leq y_0 < 6 + 1x_0 \\ 0.571y_0 - 0.041y_0^2 - 1 & x_0 \geq 1, 3.5 \leq y_0 < 7 \\ 0.408x_0 + 0.082x_0^2 + 0.51 & -2.5 \leq x_0 < 1, y_0 \geq 6 + 1x_0 \\ 1 & x_0 \geq 1, y_0 \geq 7 \end{cases}$$

Número de DNI/pasaporte 77558362:

- Ejercicio 1:

$$k = 0.016 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -6 \\ 0.016x_0y_0 + 0.094x_0 - 0y_0 - 0.004y_0^2 + 0.141 & -3 \leq x_0 < 5, -6 \leq y_0 < 0 + 2x_0 \\ 0.094x_0 + 0.016x_0^2 + 0.141 & -3 \leq x_0 < 5, y_0 \geq 0 + 2x_0 \\ 0.078y_0 - 0.004y_0^2 + 0.609 & x_0 \geq 5, -6 \leq y_0 < 10 \\ 1 & x_0 \geq 5, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -6 \text{ ó } y_0 < -3 \\ 0.04x_0y_0 + 0.12x_0 + 0.12y_0 - 0.02y_0^2 + 0.54 & -6 \leq x_0 < -1, -3 \leq y_0 < 3 + 1x_0 \\ 0.24x_0 + 0.02x_0^2 + 0.72 & -6 \leq x_0 < -1, y_0 \geq 3 + 1x_0 \\ 0.16x_0 - 0.02x_0^2 + 0.16y_0 - 0.04y_0^2 + 0.52 & -1 \leq x_0 < 4, 1 - 1x_0 \leq y_0 < 2 \\ 0.16x_0 - 0.02x_0^2 + 0.68 & -1 \leq x_0 < 4, y_0 \geq 2 \\ 0.16y_0 - 0.04y_0^2 + 0.84 & x_0 \geq 4, -3 \leq y_0 < 2 \\ 1 & x_0 \geq 4, y_0 \geq 2 \end{cases}$$

Número de DNI/pasaporte 77559749:

- Ejercicio 1:

$$k = 0.222 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -1 \\ 0.222x_0y_0 + 0.222x_0 - 0.025y_0 - 0.012y_0^2 - 0.012 & 0 \leq x_0 < 1, -1 \leq y_0 < -1 + 9x_0 \\ 0x_0 + 1x_0^2 + 0 & 0 \leq x_0 < 1, y_0 \geq -1 + 9x_0 \\ 0.198y_0 - 0.012y_0^2 + 0.21 & x_0 \geq 1, -1 \leq y_0 < 8 \\ 1 & x_0 \geq 1, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < -7 \text{ ó } -3 \leq x_0 < 3, -7 \leq y_0 < -4 - 1x_0 \\ 0.028x_0y_0 + 0.111x_0 + 0.014x_0^2 + 0.111y_0 + 0.014y_0^2 + 0.222 & -3 \leq x_0 < 3, -4 - 1x_0 \leq y_0 < -1 \\ 0.194y_0 + 0.014y_0^2 + 0.681 & x_0 \geq 3, -7 \leq y_0 < -1 \\ 0.028x_0y_0 + 0.111x_0 + 0.014x_0^2 + 0.056y_0 - 0.014y_0^2 + 0.194 & -3 \leq x_0 < 3, -1 \leq y_0 < 2 + 1x_0 \\ 0.139y_0 - 0.014y_0^2 + 0.653 & x_0 \geq 3, -1 \leq y_0 < 5 \\ 0.167x_0 + 0.028x_0^2 + 0.25 & -3 \leq x_0 < 3, y_0 \geq 2 + 1x_0 \\ 1 & x_0 \geq 3, y_0 \geq 5 \end{cases}$$

Número de DNI/pasaporte 77560945:

- Ejercicio 1:

$$k = 0.04 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -9 \\ 0.04x_0y_0 + 0.36x_0 - 0.02y_0 - 0.01y_0^2 + 0.63 & -4 \leq x_0 < 1, -9 \leq y_0 < -1 + 2x_0 \\ 0.32x_0 + 0.04x_0^2 + 0.64 & -4 \leq x_0 < 1, y_0 \geq -1 + 2x_0 \\ 0.02y_0 - 0.01y_0^2 + 0.99 & x_0 \geq 1, -9 \leq y_0 < 1 \\ 1 & x_0 \geq 1, y_0 \geq 1 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < 0.5 \text{ ó } -1 \leq x_0 < 4.5, 0.5 \leq y_0 < 5 - 1x_0 \\ 0.033x_0y_0 - 0.165x_0 + 0.017x_0^2 - 0.165y_0 + 0.017y_0^2 + 0.413 & -1 \leq x_0 < 4.5, 5 - 1x_0 \leq y_0 < 6 \\ 0.033x_0y_0 + 0.132x_0 - 0.017x_0^2 - 0.165y_0 + 0.017y_0^2 - 0.256 & 4.5 \leq x_0 < 10, -4 + 1x_0 \leq y_0 < 6 \\ -0.033y_0 + 0.033y_0^2 + 0.008 & x_0 \geq 10, 0.5 \leq y_0 < 6 \\ 0.033x_0 + 0.017x_0^2 + 0.017 & -1 \leq x_0 < 4.5, y_0 \geq 6 \\ 0.331x_0 - 0.017x_0^2 - 0.653 & 4.5 \leq x_0 < 10, y_0 \geq 6 \\ 1 & x_0 \geq 10, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte 77661132:

- Ejercicio 1:

$$k = 0.009 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -8 \text{ ó } y_0 < -5 \\ 0.009x_0y_0 - 0.027x_0 - 0.004x_0^2 + 0.071y_0 + 0.071 & -8 \leq x_0 < 7, 3 + 1x_0 \leq y_0 < 10 \\ 0.044y_0 + 0.004y_0^2 + 0.111 & x_0 \geq -3 + \frac{y_0}{1}, -5 \leq y_0 < 10 \\ 0.062x_0 - 0.004x_0^2 + 0.782 & -8 \leq x_0 < 7, y_0 \geq 10 \\ 1 & x_0 \geq 7, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -0.5 \text{ ó } y_0 < -5 \text{ ó } -0.5 \leq x_0 < 7, -5 \leq y_0 < 2 - 1x_0 \\ 0.018x_0y_0 - 0.036x_0 + 0.009x_0^2 - 0.036y_0 + 0.009y_0^2 + 0.036 & -0.5 \leq x_0 < 7, 2 - 1x_0 \leq y_0 < 2.5 \\ 0.089y_0 + 0.009y_0^2 + 0.222 & x_0 \geq 7, -5 \leq y_0 < 2.5 \\ 0.018x_0y_0 - 0.036x_0 + 0.009x_0^2 + 0.053y_0 - 0.009y_0^2 - 0.076 & -0.5 \leq x_0 < 7, 2.5 \leq y_0 < 3 + 1x_0 \\ 0.178y_0 - 0.009y_0^2 + 0.111 & x_0 \geq 7, 2.5 \leq y_0 < 10 \\ 0.018x_0 + 0.018x_0^2 + 0.004 & -0.5 \leq x_0 < 7, y_0 \geq 3 + 1x_0 \\ 1 & x_0 \geq 7, y_0 \geq 10 \end{cases}$$

Número de DNI/pasaporte 77768535:

- Ejercicio 1:

$$k = 0.042 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < -9 \\ 0.042x_0y_0 + 0.25x_0 - 0.062x_0^2 + 0.042y_0 + 0.312 & -1 \leq x_0 < 3, -6 + 3x_0 \leq y_0 < 3 \\ 0.125y_0 + 0.007y_0^2 + 0.562 & x_0 \geq 2 + \frac{y_0}{3}, -9 \leq y_0 < 3 \\ 0.375x_0 - 0.062x_0^2 + 0.438 & -1 \leq x_0 < 3, y_0 \geq 3 \\ 1 & x_0 \geq 3, y_0 \geq 3 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < 3.5 \text{ ó } -4 \leq x_0 < 0.5, 3.5 \leq y_0 < 4 - 1x_0 \\ 0.049x_0y_0 - 0.198x_0 + 0.025x_0^2 - 0.198y_0 + 0.025y_0^2 + 0.395 & -4 \leq x_0 < 0.5, 4 - 1x_0 \leq y_0 < 8 \\ 0.049x_0y_0 - 0.148x_0 - 0.025x_0^2 - 0.198y_0 + 0.025y_0^2 + 0.383 & 0.5 \leq x_0 < 5, 3 + 1x_0 \leq y_0 < 8 \\ -0.346y_0 + 0.049y_0^2 + 0.605 & x_0 \geq 5, 3.5 \leq y_0 < 8 \\ 0.198x_0 + 0.025x_0^2 + 0.395 & -4 \leq x_0 < 0.5, y_0 \geq 8 \\ 0.247x_0 - 0.025x_0^2 + 0.383 & 0.5 \leq x_0 < 5, y_0 \geq 8 \\ 1 & x_0 \geq 5, y_0 \geq 8 \end{cases}$$

Número de DNI/pasaporte 77774484:

- Ejercicio 1:

$$k = 0.01 \text{ y } F(x_0, y_0) = \begin{cases} 0 & x_0 < -6 \text{ ó } y_0 < -8 \text{ ó } -6 \leq x_0 < 8, -8 \leq y_0 < 0 - 1x_0 \\ 0.01x_0y_0 - 0x_0 + 0.005x_0^2 - 0y_0 + 0.005y_0^2 + 0 & -6 \leq x_0 < 8, 0 - 1x_0 \leq y_0 < 6 \\ 0.082y_0 + 0.005y_0^2 + 0.327 & x_0 \geq 8, -8 \leq y_0 < 6 \\ 0.061x_0 + 0.005x_0^2 + 0.184 & -6 \leq x_0 < 8, y_0 \geq 6 \\ 1 & x_0 \geq 8, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -6 \text{ ó } y_0 < -8 \\ 0.02x_0y_0 + 0.163x_0 - 0.041y_0 - 0.01y_0^2 + 0.327 & -6 \leq x_0 < 1, -8 \leq y_0 < -2 + 1x_0 \\ 0.122x_0 + 0.01x_0^2 + 0.367 & -6 \leq x_0 < 1, y_0 \geq -2 + 1x_0 \\ 0.163x_0 - 0.01x_0^2 - 0.041y_0 - 0.02y_0^2 + 0.327 & 1 \leq x_0 < 8, 0 - 1x_0 \leq y_0 < -1 \\ 0.163x_0 - 0.01x_0^2 + 0.347 & 1 \leq x_0 < 8, y_0 \geq -1 \\ -0.041y_0 - 0.02y_0^2 + 0.98 & x_0 \geq 8, -8 \leq y_0 < -1 \\ 1 & x_0 \geq 8, y_0 \geq -1 \end{cases}$$

Número de DNI/pasaporte 77857398:

- Ejercicio 1:

$$k = 0.056 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -2 \text{ ó } y_0 < -5 \text{ ó } -2 \leq x_0 < 4, -5 \leq y_0 < -1 - 1x_0 \\ 0.056x_0y_0 + 0.056x_0 + 0.028x_0^2 + 0.056y_0 + 0.028y_0^2 + 0.028 & -2 \leq x_0 < 4, -1 - 1x_0 \leq y_0 < 1 \\ 0.278y_0 + 0.028y_0^2 + 0.694 & x_0 \geq 4, -5 \leq y_0 < 1 \\ 0.111x_0 + 0.028x_0^2 + 0.111 & -2 \leq x_0 < 4, y_0 \geq 1 \\ 1 & x_0 \geq 4, y_0 \geq 1 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -2 \text{ ó } y_0 < -2 \text{ ó } -2 \leq x_0 < 1, -2 \leq y_0 < -1 - 1x_0 \\ 0.111x_0y_0 + 0.111x_0 + 0.056x_0^2 + 0.111y_0 + 0.056y_0^2 + 0.056 & -2 \leq x_0 < 1, -1 - 1x_0 \leq y_0 < 1 \\ 0.111x_0y_0 + 0.333x_0 - 0.056x_0^2 + 0.111y_0 + 0.056y_0^2 - 0.056 & 1 \leq x_0 < 4, -3 + 1x_0 \leq y_0 < 1 \\ 0.444y_0 + 0.111y_0^2 + 0.444 & x_0 \geq 4, -2 \leq y_0 < 1 \\ 0.222x_0 + 0.056x_0^2 + 0.222 & -2 \leq x_0 < 1, y_0 \geq 1 \\ 0.444x_0 - 0.056x_0^2 + 0.111 & 1 \leq x_0 < 4, y_0 \geq 1 \\ 1 & x_0 \geq 4, y_0 \geq 1 \end{cases}$$

Número de DNI/pasaporte 77927723:

- Ejercicio 1:

$$k = 0.04 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -3 \text{ ó } y_0 < 0 \\ 0.04x_0y_0 - 0.24x_0 - 0.04x_0^2 + 0.12y_0 - 0.36 & -3 \leq x_0 < 2, 6 + 2x_0 \leq y_0 < 10 \\ 0y_0 + 0.01y_0^2 + 0 & x_0 \geq -3 + \frac{y_0}{2}, 0 \leq y_0 < 10 \\ 0.16x_0 - 0.04x_0^2 + 0.84 & -3 \leq x_0 < 2, y_0 \geq 10 \\ 1 & x_0 \geq 2, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < 0 \text{ ó } y_0 < -2 \text{ ó } 0 \leq x_0 < 4, -2 \leq y_0 < 2 - 1x_0 \\ 0.062x_0y_0 - 0.125x_0 + 0.031x_0^2 - 0.125y_0 + 0.031y_0^2 + 0.125 & 0 \leq x_0 < 4, 2 - 1x_0 \leq y_0 < 2 \\ 0.062x_0y_0 + 0.375x_0 - 0.031x_0^2 - 0.125y_0 + 0.031y_0^2 - 0.875 & 4 \leq x_0 < 8, -6 + 1x_0 \leq y_0 < 2 \\ 0.25y_0 + 0.062y_0^2 + 0.25 & x_0 \geq 8, -2 \leq y_0 < 2 \\ 0x_0 + 0.031x_0^2 + 0 & 0 \leq x_0 < 4, y_0 \geq 2 \\ 0.5x_0 - 0.031x_0^2 - 1 & 4 \leq x_0 < 8, y_0 \geq 2 \\ 1 & x_0 \geq 8, y_0 \geq 2 \end{cases}$$

Número de DNI/pasaporte 78646954:

- Ejercicio 1:

$$k = 0.006 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < -9 \text{ ó } -10 \leq x_0 < 9, -9 \leq y_0 < 0 - 1x_0 \\ 0.006x_0y_0 - 0x_0 + 0.003x_0^2 - 0y_0 + 0.003y_0^2 + 0 & -10 \leq x_0 < 9, 0 - 1x_0 \leq y_0 < 10 \\ 0.05y_0 + 0.003y_0^2 + 0.224 & x_0 \geq 9, -9 \leq y_0 < 10 \\ 0.055x_0 + 0.003x_0^2 + 0.277 & -10 \leq x_0 < 9, y_0 \geq 10 \\ 1 & x_0 \geq 9, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -10 \text{ ó } y_0 < 0.5 \text{ ó } -10 \leq x_0 < -0.5, 0.5 \leq y_0 < 0 - 1x_0 \\ 0.011x_0y_0 - 0x_0 + 0.006x_0^2 - 0y_0 + 0.006y_0^2 + 0 & -10 \leq x_0 < -0.5, 0 - 1x_0 \leq y_0 < 10 \\ 0.011x_0y_0 - 0.011x_0 - 0.006x_0^2 - 0y_0 + 0.006y_0^2 - 0.003 & -0.5 \leq x_0 < 9, 1 + 1x_0 \leq y_0 < 10 \\ -0.011y_0 + 0.011y_0^2 + 0.003 & x_0 \geq 9, 0.5 \leq y_0 < 10 \\ 0.111x_0 + 0.006x_0^2 + 0.554 & -10 \leq x_0 < -0.5, y_0 \geq 10 \\ 0.1x_0 - 0.006x_0^2 + 0.551 & -0.5 \leq x_0 < 9, y_0 \geq 10 \\ 1 & x_0 \geq 9, y_0 \geq 10 \end{cases}$$

Número de DNI/pasaporte 78985873:

- Ejercicio 1:

$$k = 0.016 \; y \; F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < -6 \\ 0.016x_0y_0 - 0.031x_0 - 0.016x_0^2 + 0.062y_0 + 0.125 & -4 \leq x_0 < 4, 2 + 2x_0 \leq y_0 < 10 \\ 0.047y_0 + 0.004y_0^2 + 0.141 & x_0 \geq -1 + \frac{y_0}{2}, -6 \leq y_0 < 10 \\ 0.125x_0 - 0.016x_0^2 + 0.75 & -4 \leq x_0 < 4, y_0 \geq 10 \\ 1 & x_0 \geq 4, y_0 \geq 10 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -9 \text{ ó } y_0 < -6 \\ 0.02x_0y_0 - 0.061x_0 - 0.01x_0^2 + 0.184y_0 + 0.276 & -9 \leq x_0 < -2, 3 + 1x_0 \leq y_0 < -1 - 1x_0 \\ 0.122y_0 + 0.01y_0^2 + 0.367 & x_0 \geq -3 + \frac{y_0}{1}, -6 \leq y_0 < 1 \\ 0.163y_0 - 0.01y_0^2 + 0.347 & x_0 \geq -2, 1 \leq y_0 < 8 \\ -0.082x_0 - 0.02x_0^2 + 0.163y_0 - 0.01y_0^2 + 0.265 & -9 \leq x_0 < -2, -1 - 1x_0 \geq y_0 < 8 \\ -0.082x_0 - 0.02x_0^2 + 0.918 & -9 \leq x_0 < -2, y_0 \geq 8 \\ 1 & x_0 \geq -2, y_0 \geq 8 \end{cases}$$

Número de DNI/pasaporte 79043887:

- Ejercicio 1:

$$k = 0.01 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -6 \text{ ó } y_0 < -6 \text{ ó } -6 \leq x_0 < 8, -6 \leq y_0 < 2 - 1x_0 \\ 0.01x_0y_0 - 0.02x_0 + 0.005x_0^2 - 0.02y_0 + 0.005y_0^2 + 0.02 & -6 \leq x_0 < 8, 2 - 1x_0 \leq y_0 < 8 \\ 0.061y_0 + 0.005y_0^2 + 0.184 & x_0 \geq 8, -6 \leq y_0 < 8 \\ 0.061x_0 + 0.005x_0^2 + 0.184 & -6 \leq x_0 < 8, y_0 \geq 8 \\ 1 & x_0 \geq 8, y_0 \geq 8 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -6 \text{ ó } y_0 < 1 \text{ ó } -6 \leq x_0 < 1, 1 \leq y_0 < 2 - 1x_0 \\ 0.02x_0y_0 - 0.041x_0 + 0.01x_0^2 - 0.041y_0 + 0.01y_0^2 + 0.041 & -6 \leq x_0 < 1, 2 - 1x_0 \leq y_0 < 8 \\ 0.02x_0y_0 - 0x_0 - 0.01x_0^2 - 0.041y_0 + 0.01y_0^2 + 0.02 & 1 \leq x_0 < 8, 0 + 1x_0 \leq y_0 < 8 \\ -0.041y_0 + 0.02y_0^2 + 0.02 & x_0 \geq 8, 1 \leq y_0 < 8 \\ 0.122x_0 + 0.01x_0^2 + 0.367 & -6 \leq x_0 < 1, y_0 \geq 8 \\ 0.163x_0 - 0.01x_0^2 + 0.347 & 1 \leq x_0 < 8, y_0 \geq 8 \\ 1 & x_0 \geq 8, y_0 \geq 8 \end{cases}$$

Número de DNI/pasaporte E82500190 :

- Ejercicio 1:

$$k = 0.056 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -4 \text{ ó } y_0 < 0 \\ 0.056x_0y_0 - 0.222x_0 - 0.028x_0^2 + 0.222y_0 - 0.444 & -4 \leq x_0 < 2, 4 + 1x_0 \leq y_0 < 6 \\ 0y_0 + 0.028y_0^2 + 0 & x_0 \geq -4 + \frac{y_0}{1}, 0 \leq y_0 < 6 \\ 0.111x_0 - 0.028x_0^2 + 0.889 & -4 \leq x_0 < 2, y_0 \geq 6 \\ 1 & x_0 \geq 2, y_0 \geq 6 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -1 \text{ ó } y_0 < 0 \text{ ó } -1 \leq x_0 < 2, 0 \leq y_0 < 2 - 1x_0 \\ 0.111x_0y_0 - 0.222x_0 + 0.056x_0^2 - 0.222y_0 + 0.056y_0^2 + 0.222 & -1 \leq x_0 < 2, 2 - 1x_0 \leq y_0 < 3 \\ 0y_0 + 0.056y_0^2 + 0 & x_0 \geq 2, 0 \leq y_0 < 3 \\ 0.111x_0y_0 - 0.222x_0 + 0.056x_0^2 + 0.444y_0 - 0.056y_0^2 - 0.778 & -1 \leq x_0 < 2, 3 \leq y_0 < 4 + 1x_0 \\ 0.667y_0 - 0.056y_0^2 - 1 & x_0 \geq 2, 3 \leq y_0 < 6 \\ 0.222x_0 + 0.111x_0^2 + 0.111 & -1 \leq x_0 < 2, y_0 \geq 4 + 1x_0 \\ 1 & x_0 \geq 2, y_0 \geq 6 \end{cases}$$

Número de DNI/pasaporte LA141837 :

- Ejercicio 1:

$$k = 0.02 \ y \ F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < -1 \text{ ó } -7 \leq x_0 < 3, -1 \leq y_0 < 2 - 1x_0 \\ 0.02x_0y_0 - 0.04x_0 + 0.01x_0^2 - 0.04y_0 + 0.01y_0^2 + 0.04 & -7 \leq x_0 < 3, 2 - 1x_0 \leq y_0 < 9 \\ 0.02y_0 + 0.01y_0^2 + 0.01 & x_0 \geq 3, -1 \leq y_0 < 9 \\ 0.14x_0 + 0.01x_0^2 + 0.49 & -7 \leq x_0 < 3, y_0 \geq 9 \\ 1 & x_0 \geq 3, y_0 \geq 9 \end{cases}$$

- Ejercicio 2:

$$F(x_0, y_0) = \begin{cases} 0 & x_0 < -7 \text{ ó } y_0 < -1 \\ 0.04x_0y_0 + 0.04x_0 + 0.24y_0 - 0.02y_0^2 + 0.26 & -7 \leq x_0 < -2, -1 \leq y_0 < 6 + 1x_0 \\ 0.28x_0 + 0.02x_0^2 + 0.98 & -7 \leq x_0 < -2, y_0 \geq 6 + 1x_0 \\ 0.12x_0 - 0.02x_0^2 + 0.32y_0 - 0.04y_0^2 + 0.18 & -2 \leq x_0 < 3, 2 - 1x_0 \leq y_0 < 4 \\ 0.12x_0 - 0.02x_0^2 + 0.82 & -2 \leq x_0 < 3, y_0 \geq 4 \\ 0.32y_0 - 0.04y_0^2 + 0.36 & x_0 \geq 3, -1 \leq y_0 < 4 \\ 1 & x_0 \geq 3, y_0 \geq 4 \end{cases}$$