## Type-3 Decision Functions Tutorial Exercise

Find the regions where the two-dimensional populations $\Omega_{1}, \Omega_{2}$ and $\Omega_{3}$ belong to, so that they can be separated using the type 3 decision functions:

$$
\begin{gathered}
d_{1}(\mathbf{x})=-x_{1}+x_{2} \\
d_{2}(\mathbf{x})=x_{1}+x_{2}-1 \\
d_{3}(\mathbf{x})=-x_{2}
\end{gathered}
$$

Classify the vector $[1,1]^{T}$.

