## Type-2 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 2 decision functions:

$$
\begin{gathered}
d_{12}(\mathbf{x})=x_{1}-x_{2}+5 \\
d_{13}(\mathbf{x})=-x_{1}+3 \\
d_{23}(\mathbf{x})=-x_{1}+x_{2}
\end{gathered}
$$

Classify the vectors $[4,3]^{T}$ and $[2.9,2.5]^{T}$.

