Decision functions
(Continuation)

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1. ANSWERS

1. A **hyperplane** is a geometrical concept and is defined for an n dimensional space as a flat subset with dimension $n - 1$which separates the space into two half spaces.

2. If C_1, C_2, C_3, …., C_m be m pattern classes in R^n. If a surface $d(x) = 0$ x Є R^n separates C_i and remaining C_j $j \neq i$

$$d(x) > 0 \; x \epsilon C_i$$

$$d(x) < 0 \; x \epsilon C_j \; j \neq i$$

then d(x) is called a decision function.