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Chapter 1

The Probably Approximately Correct Learning Model

1.1 A Rectangle Learning Game

The objective of this game is to learn an unknown target (axis-aligned) rectangle $\mathcal{R} = [a, b] \times [c, d] \subset \mathbb{R}^2$. The player can gain information about \mathcal{R} only by chosing random points according to some distribution \mathcal{D} and asking the game whether they are inside \mathcal{R}

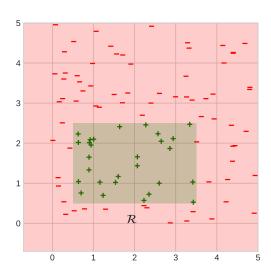


Figure 1.1: The target triangle along with a labeled sample of points