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\\\\right.$$(I)写出(X,Y)的概率密度;(Ⅱ)问U与X是否相互独立?并说明理由;(Ⅲ)求Z=U+X的分布函数F(z).","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":755},{"x":1654,"y":755},{"x":1654,"y":1428},{"x":0,"y":1428}]],"pos\_list":[[{"x":53,"y":755},{"x":1599,"y":755},{"x":1599,"y":1132},{"x":53,"y":1132}]],"element\_list":[{"type":0,"text":"(22)(本题满分11分)","pos\_list":[[{"x":53,"y":756},{"x":418,"y":755},{"x":418,"y":787},{"x":53,"y":788}]],"content\_list":[{"type":1,"prob":99,"string":"(22)(本题满分11分)","option":"","pos":[{"x":53,"y":756},{"x":418,"y":755},{"x":418,"y":787},{"x":53,"y":788}]}]},{"type":0,"text":"$$D = \\\\left\\\\{ \\\\left( x , y \\\\right) | 0 < x < 1 , x ^ { 2 } < y < \\\\sqrt x \\\\right\\\\}$$","pos\_list":[[{"x":633,"y":813},{"x":1266,"y":810},{"x":1266,"y":861},{"x":634,"y":864}]],"content\_list":[{"type":2,"prob":98,"string":"$$D = \\\\left\\\\{ \\\\left( x , y \\\\right) | 0 < x < 1 , x ^ { 2 } < y < \\\\sqrt x 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