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x y = 1 , x ^ { 2 } + y ^ { 2 } - x y = 2$$与直线y=$$\\\\sqrt 3 x , y = 0$$围成,计算$$\\\\int { \\\\frac { 1 } { 3 x ^ { 2 } + y ^ { 2 } } } d x d y .$$","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":200},{"x":1410,"y":200},{"x":1410,"y":659},{"x":0,"y":659}]],"pos\_list":[[{"x":129,"y":200},{"x":1263,"y":200},{"x":1263,"y":366},{"x":129,"y":366}]],"element\_list":[{"type":0,"text":"20.(本题满分12分)","pos\_list":[[{"x":129,"y":200},{"x":384,"y":200},{"x":384,"y":224},{"x":129,"y":224}]],"content\_list":[{"type":1,"prob":99,"string":"20.(本题满分12分)","option":"","pos":[{"x":129,"y":200},{"x":384,"y":200},{"x":384,"y":224},{"x":129,"y":224}]}]},{"type":0,"text":"设平面有界区域D位于第一象限,由曲线$$x ^ { 2 } + y ^ { 2 } - x y = 1 , x ^ { 2 } + y ^ { 2 } - x y = 2$$与直线y=$$\\\\sqrt 3 x , y = 0$$围成,计算$$\\\\int { \\\\frac { 1 } { 3 x ^ { 2 } + y ^ { 2 } } } d x d y .$$","pos\_list":[[{"x":174,"y":239},{"x":1257,"y":235},{"x":1257,"y":363},{"x":175,"y":368}]],"content\_list":[{"type":1,"prob":99,"string":"设平面有界区域D位于第一象限,由曲线","option":"","pos":[{"x":174,"y":247},{"x":680,"y":245},{"x":680,"y":270},{"x":174,"y":272}]},{"type":2,"prob":99,"string":"$$x ^ { 2 } + y ^ { 2 } - 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f \\\\left( - a \\\\right) | .$$","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":659},{"x":1410,"y":659},{"x":1410,"y":1209},{"x":0,"y":1209}]],"pos\_list":[[{"x":130,"y":659},{"x":1093,"y":659},{"x":1093,"y":954},{"x":130,"y":954}]],"element\_list":[{"type":0,"text":"21.(本题满分12分)","pos\_list":[[{"x":131,"y":660},{"x":386,"y":659},{"x":386,"y":683},{"x":131,"y":684}]],"content\_list":[{"type":1,"prob":99,"string":"21.(本题满分12分)","option":"","pos":[{"x":131,"y":660},{"x":386,"y":659},{"x":386,"y":683},{"x":131,"y":684}]}]},{"type":0,"text":"设函数f(x)在[-a,a]上具有2阶连续导数.证明:","pos\_list":[[{"x":176,"y":702},{"x":816,"y":700},{"x":816,"y":735},{"x":176,"y":736}]],"content\_list":[{"type":1,"prob":99,"string":"设函数f(x)在","option":"","pos":[{"x":176,"y":706},{"x":368,"y":706},{"x":368,"y":731},{"x":176,"y":731}]},{"type":1,"prob":99,"string":"[-a,a]","option":"","pos":[{"x":368,"y":701},{"x":477,"y":701},{"x":477,"y":736},{"x":368,"y":736}]},{"type":1,"prob":99,"string":"上具有2阶连续导数.证明:","option":"","pos":[{"x":477,"y":706},{"x":816,"y":705},{"x":816,"y":730},{"x":477,"y":731}]}]},{"type":0,"text":"(1)若f(0)=0,则存在ξ∈(-a,a),使得$$f \' \\\\left( \\\\xi \\\\right) = \\\\frac { 1 } { a ^ { 2 } } \\\\left[ f \\\\left( a \\\\right) + f \\\\left( - 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