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x ^ { 2 } d } \\\\left( x = 0 , 1 , 2 , \\\\cdots \\\\right) .$$(I)证明数列(Ⅱ)求$$\\\\lim \_ { n \\\\to \\\\infty } \\\\frac { a \_ { n } } { a \_ { n - 1 } } .$$-$$\\\\left. { a \_ { n } } \\\\right\\\\}$$单调递减,且a$$a \_ { n } = \\\\frac { n - 1 } { n + 2 } a \_ { n - 2 } \\\\left( n = 2 , 3 ,$$…);","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":548},{"x":1654,"y":548},{"x":1654,"y":1312},{"x":0,"y":1312}]],"pos\_list":[[{"x":51,"y":548},{"x":1206,"y":548},{"x":1206,"y":919},{"x":51,"y":919}]],"element\_list":[{"type":0,"text":"(19)(本题满分10分)","pos\_list":[[{"x":54,"y":565},{"x":419,"y":566},{"x":419,"y":597},{"x":54,"y":597}]],"content\_list":[{"type":1,"prob":96,"string":"(19)(本题满分10分)","option":"","pos":[{"x":54,"y":565},{"x":419,"y":566},{"x":419,"y":597},{"x":54,"y":597}]}]},{"type":0,"text":"设$$a \_ { n } = \\\\int \_ { 0 } ^ { 1 } x ^ { n } \\\\sqrt { 1 - x ^ { 2 } d } \\\\left( x = 0 , 1 , 2 , \\\\cdots \\\\right) .$$","pos\_list":[[{"x":139,"y":619},{"x":797,"y":618},{"x":797,"y":698},{"x":139,"y":699}]],"content\_list":[{"type":1,"prob":99,"string":"设","option":"","pos":[{"x":139,"y":636},{"x":190,"y":636},{"x":190,"y":682},{"x":139,"y":682}]},{"type":2,"prob":97,"string":"$$a \_ { n } = \\\\int \_ { 0 } ^ { 1 } x ^ { n } \\\\sqrt { 1 - 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