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^ { 1 } i ^ { 1 } \\\\ln l i t d t \\\\left( n = 1 , 2 , \\\\right.$$(Ⅱ)记$$u \_ { n } = \\\\int \_ { 0 } ^ { 1 } | \\\\ln t | \\\\left[ \\\\ln \\\\left( 1 + t \\\\right) \\\\right] ^ { n } d t \\\\left( n = 1 , 2 , \\\\right.$$…),求极限$$\\\\lim \_ { n \\\\to \\\\infty } { u \_ { n } } .$$(I)比较 …)的大小,说明理由;","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1023},{"x":1654,"y":1023},{"x":1654,"y":1526},{"x":0,"y":1526}]],"pos\_list":[[{"x":54,"y":1023},{"x":1500,"y":1023},{"x":1500,"y":1253},{"x":54,"y":1253}]],"element\_list":[{"type":0,"text":"(18)(本题满分10分)","pos\_list":[[{"x":54,"y":1023},{"x":419,"y":1024},{"x":419,"y":1056},{"x":54,"y":1055}]],"content\_list":[{"type":1,"prob":99,"string":"(18)(本题满分10分)","option":"","pos":[{"x":54,"y":1023},{"x":419,"y":1024},{"x":419,"y":1056},{"x":54,"y":1055}]}]},{"type":0,"text":"$$\\\\int \_ { 0 } ^ { 1 } | \\\\ln t | | \\\\ln \\\\left( 1 + t \\\\right) ] ^ { n } d t$$与$$\\\\int \_ { 0 } ^ { 1 } i ^ { 1 } \\\\ln l i t d t \\\\left( n = 1 , 2 , \\\\right.$$(Ⅱ)记$$u \_ { n } = \\\\int \_ { 0 } ^ { 1 } | \\\\ln t | \\\\left[ \\\\ln \\\\left( 1 + t \\\\right) \\\\right] ^ { n } d t \\\\left( n = 1 , 2 , \\\\right.$$…),求极限$$\\\\lim \_ { n \\\\to \\\\infty } { u \_ { n } } .$$","pos\_list":[[{"x":140,"y":1070},{"x":1228,"y":1072},{"x":1227,"y":1254},{"x":140,"y":1252}]],"content\_list":[{"type":2,"prob":91,"string":"$$\\\\int \_ { 0 } ^ { 1 } | \\\\ln t | | \\\\ln \\\\left( 1 + t \\\\right) ] ^ { n } d t$$","option":"","pos":[{"x":301,"y":1071},{"x":687,"y":1072},{"x":686,"y":1159},{"x":301,"y":1158}]},{"type":1,"prob":99,"string":"与","option":"","pos":[{"x":687,"y":1086},{"x":732,"y":1086},{"x":732,"y":1145},{"x":687,"y":1145}]},{"type":2,"prob":87,"string":"$$\\\\int \_ { 0 } ^ { 1 } i ^ { 1 } \\\\ln l i t d t \\\\left( n = 1 , 2 , 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