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\\\\int \_ { 1 } ^ { n } f \\\\left( x \\\\right) d x \\\\left( n = 1 , 2 , \\\\cdots \\\\right)$$证明数列$$\\\\left\\\\{ a \_ { n } \\\\right\\\\}$$的极限存在.","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":184},{"x":1654,"y":184},{"x":1654,"y":420},{"x":0,"y":420}]],"pos\_list":[[{"x":74,"y":184},{"x":1567,"y":184},{"x":1567,"y":319},{"x":74,"y":319}]],"element\_list":[{"type":0,"text":"设f(x)是区间[0,+∞)上单调减少且非负的连续函数,$$a \_ { n } = \\\\sum \_ { k = 1 } ^ { n } f \\\\left( k \\\\right) - \\\\int \_ { 1 } ^ { n } f \\\\left( x \\\\right) d x \\\\left( n = 1 , 2 , \\\\cdots \\\\right)$$证明数列$$\\\\left\\\\{ a \_ { n } \\\\right\\\\}$$的极限存在.","pos\_list":[[{"x":76,"y":182},{"x":1544,"y":185},{"x":1544,"y":321},{"x":75,"y":318}]],"content\_list":[{"type":1,"prob":99,"string":"设f(x)是区间","option":"","pos":[{"x":76,"y":199},{"x":306,"y":199},{"x":306,"y":251},{"x":75,"y":250}]},{"type":1,"prob":99,"string":"[0,+∞)","option":"","pos":[{"x":306,"y":205},{"x":457,"y":205},{"x":457,"y":246},{"x":306,"y":246}]},{"type":1,"prob":99,"string":"上单调减少且非负的连续函数,","option":"","pos":[{"x":457,"y":199},{"x":944,"y":200},{"x":943,"y":252},{"x":457,"y":251}]},{"type":2,"prob":99,"string":"$$a \_ { n } = \\\\sum \_ { k = 1 } ^ { n } f \\\\left( k \\\\right) - 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