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\\\\left( 0 \\\\right) = 0 , f \\\\left( 1 \\\\right) = \\\\frac { 1 } { 3 } .$$证明:存在$$\\\\xi \\\\in \\\\left( 0 , \\\\frac { 1 } { 2 } \\\\right) , n \\\\in \\\\left( \\\\frac { 1 } { 2 } , 1 \\\\right)$$,使得:$$f \' \\\\left( \\\\xi \\\\right) + f \' \\\\left( n \\\\right) = s ^ { 2 } + n ^ { 2 } .$$","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":21},{"x":1654,"y":21},{"x":1654,"y":728},{"x":0,"y":728}]],"pos\_list":[[{"x":48,"y":21},{"x":1546,"y":21},{"x":1547,"y":279},{"x":48,"y":279}]],"element\_list":[{"type":0,"text":"(21)(本题满分10分)","pos\_list":[[{"x":54,"y":36},{"x":419,"y":37},{"x":419,"y":69},{"x":54,"y":68}]],"content\_list":[{"type":1,"prob":96,"string":"(21)(本题满分10分)","option":"","pos":[{"x":54,"y":36},{"x":419,"y":37},{"x":419,"y":69},{"x":54,"y":68}]}]},{"type":0,"text":"设函数f(x)在闭区间[0,1]上连续,在开区间(0,1)内可导,且$$f \\\\left( 0 \\\\right) = 0 , f \\\\left( 1 \\\\right) = \\\\frac { 1 } { 3 } .$$证明:存在$$\\\\xi \\\\in \\\\left( 0 , \\\\frac { 1 } { 2 } \\\\right) , n \\\\in \\\\left( \\\\frac { 1 } { 2 } , 1 \\\\right)$$,使得:$$f \' \\\\left( \\\\xi \\\\right) + f \' \\\\left( n \\\\right) = s ^ { 2 } + n ^ { 2 } .$$","pos\_list":[[{"x":141,"y":90},{"x":1540,"y":87},{"x":1541,"y":268},{"x":141,"y":271}]],"content\_list":[{"type":1,"prob":98,"string":"设函数f(x)在闭区间[0,1]上连续,在开区间(0,1)内可导,且","option":"","pos":[{"x":141,"y":104},{"x":1179,"y":99},{"x":1179,"y":161},{"x":141,"y":165}]},{"type":2,"prob":99,"string":"$$f \\\\left( 0 \\\\right) = 0 , f \\\\left( 1 \\\\right) = \\\\frac { 1 } { 3 } .$$","option":"","pos":[{"x":1179,"y":88},{"x":1540,"y":88},{"x":1540,"y":171},{"x":1179,"y":171}]},{"type":1,"prob":99,"string":"证明:存在","option":"","pos":[{"x":143,"y":200},{"x":313,"y":200},{"x":313,"y":256},{"x":143,"y":256}]},{"type":2,"prob":99,"string":"$$\\\\xi \\\\in \\\\left( 0 , \\\\frac { 1 } { 2 } \\\\right) , n \\\\in \\\\left( \\\\frac { 1 } { 2 } , 1 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