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1 \\\\left( n = 1 , 2 , \\\\cdots \\\\right) ,$$.证明$$\\\\left\\\\{ x \_ { n } \\\\right.$$}收敛,并求$$\\\\lim \_ { n \\\\to \\\\infty } { x \_ { n } } .$$","pos\_list":[[{"x":141,"y":1194},{"x":1466,"y":1187},{"x":1466,"y":1243},{"x":141,"y":1251}]],"content\_list":[{"type":1,"prob":96,"string":"设数列;","option":"","pos":[{"x":141,"y":1201},{"x":260,"y":1200},{"x":260,"y":1235},{"x":141,"y":1236}]},{"type":2,"prob":99,"string":"$$\\\\left\\\\{ x \_ { n } \\\\right\\\\}$$","option":"","pos":[{"x":260,"y":1193},{"x":319,"y":1193},{"x":319,"y":1235},{"x":260,"y":1235}]},{"type":1,"prob":99,"string":"满足:","option":"","pos":[{"x":319,"y":1200},{"x":432,"y":1200},{"x":433,"y":1234},{"x":319,"y":1235}]},{"type":2,"prob":99,"string":"$$x \_ { 1 } > 0 , x \_ { n } e ^ { x \_ { n + 1 } } = e ^ { x \_ { n } } - 1 \\\\left( n = 1 , 2 , \\\\cdots \\\\right) ,$$","option":"","pos":[{"x":432,"y":1195},{"x":1032,"y":1190},{"x":1032,"y":1235},{"x":433,"y":1240}]},{"type":1,"prob":99,"string":".证明","option":"","pos":[{"x":1032,"y":1196},{"x":1120,"y":1196},{"x":1120,"y":1231},{"x":1032,"y":1231}]},{"type":2,"prob":95,"string":"$$\\\\left\\\\{ x \_ { n } \\\\right.$$","option":"","pos":[{"x":1120,"y":1195},{"x":1173,"y":1195},{"x":1173,"y":1238},{"x":1120,"y":1238}]},{"type":1,"prob":98,"string":"}收敛,并求","option":"","pos":[{"x":1172,"y":1196},{"x":1363,"y":1195},{"x":1363,"y":1229},{"x":1173,"y":1230}]},{"type":2,"prob":94,"string":"$$\\\\lim \_ { n \\\\to \\\\infty } { x \_ { n } } .$$","option":"","pos":[{"x":1363,"y":1194},{"x":1466,"y":1195},{"x":1465,"y":1243},{"x":1363,"y":1243}]}]}]},{"index":3,"type":15,"num\_choices":0,"prob":0,"text":"(20)(本题满分11分)设实二次型$$f \\\\left( x \_ { 1 } , x \_ { 2 } , x \_ { 3 } \\\\right) = \\\\left( x \_ { 1 } - x \_ { 2 } + x \_ { 3 } \\\\right) ^ { 2 } + \\\\left( x \_ { 2 } + x \_ { 3 } \\\\right) ^ { 2 } + \\\\left( x \_ { 1 } + a x \_ { 3 } \\\\right) ^ { 2 }$$,其中a是参数.(I)(I)求f(x,x2,x)=0的解;$$f \\\\left( x \_ { 1 } , x \_ { 2 } , x \_ { 3 } \\\\right) = 0$$(Ⅱ)求f(x,2,x)的规范形.$$f \\\\left( x \_ { 1 } , x \_ { 2 } , x \_ { 3 } \\\\right)$$","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1579},{"x":1654,"y":1579},{"x":1654,"y":2339},{"x":0,"y":2339}]],"pos\_list":[[{"x":54,"y":1579},{"x":1494,"y":1580},{"x":1494,"y":1803},{"x":54,"y":1803}]],"element\_list":[{"type":0,"text":"(20)(本题满分11分)","pos\_list":[[{"x":54,"y":1594},{"x":419,"y":1594},{"x":419,"y":1626},{"x":54,"y":1626}]],"content\_list":[{"type":1,"prob":99,"string":"(20)(本题满分11分)","option":"","pos":[{"x":54,"y":1594},{"x":419,"y":1594},{"x":419,"y":1626},{"x":54,"y":1626}]}]},{"type":0,"text":"设实二次型$$f \\\\left( x \_ { 1 } , x \_ { 2 } , x \_ { 3 } \\\\right) = \\\\left( x \_ { 1 } - x \_ { 2 } + x \_ { 3 } \\\\right) ^ { 2 } + \\\\left( x \_ { 2 } + x \_ { 3 } \\\\right) ^ { 2 } + \\\\left( x \_ { 1 } + a x \_ { 3 } \\\\right) ^ { 2 }$$,其中a是参数.(I)(I)求f(x,x2,x)=0的解;$$f \\\\left( x \_ { 1 } , x \_ { 2 } , x \_ { 3 } \\\\right) = 0$$","pos\_list":[[{"x":141,"y":1644},{"x":1489,"y":1638},{"x":1489,"y":1741},{"x":141,"y":1747}]],"content\_list":[{"type":1,"prob":99,"string":"设实二次型","option":"","pos":[{"x":141,"y":1652},{"x":327,"y":1652},{"x":327,"y":1686},{"x":141,"y":1686}]},{"type":2,"prob":99,"string":"$$f \\\\left( x \_ { 1 } , x \_ { 2 } , x \_ { 3 } \\\\right) = \\\\left( x \_ { 1 } - 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