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)(A)r(A,AB)=r(A). (B)r(A,BA)=r(A).(C) r(A, B) =max(r(A) , r(B) } $$\\\\left( D \\\\right) r \\\\left( A , B \\\\right) = r \\\\left( A ^ { T } , B ^ { T } \\\\right) .$$","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":1234,"y":199},{"x":1340,"y":199},{"x":1340,"y":237},{"x":1234,"y":237}]],"pos\_list":[[{"x":55,"y":196},{"x":1343,"y":196},{"x":1343,"y":354},{"x":55,"y":354}]],"element\_list":[{"type":0,"text":"(8)设A,B为n阶矩阵,记r(X)为矩阵X的秩,(X,Y)表示分块矩阵,则( )","pos\_list":[[{"x":55,"y":201},{"x":1337,"y":202},{"x":1337,"y":234},{"x":55,"y":232}]],"content\_list":[{"type":1,"prob":99,"string":"(8)设A,B为","option":"","pos":[{"x":55,"y":201},{"x":292,"y":201},{"x":292,"y":233},{"x":55,"y":232}]},{"type":1,"prob":99,"string":"n","option":"","pos":[{"x":292,"y":211},{"x":312,"y":211},{"x":312,"y":232},{"x":292,"y":232}]},{"type":1,"prob":98,"string":"阶矩阵,记r(X)为矩阵X的秩,(X,Y)表示分块矩阵,则()","option":"","pos":[{"x":312,"y":201},{"x":1337,"y":202},{"x":1337,"y":234},{"x":312,"y":233}]}]},{"type":0,"text":"(A)r(A,AB)=r(A). 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1 } = x y$$","option":"","pos":[{"x":566,"y":828},{"x":816,"y":828},{"x":816,"y":870},{"x":566,"y":870}]},{"type":1,"prob":80,"string":"确定,则器,","option":"","pos":[{"x":816,"y":823},{"x":1027,"y":823},{"x":1027,"y":885},{"x":816,"y":885}]},{"type":2,"prob":88,"string":"$$\\\\frac { a z } { \\\\partial x } | \\\\left( 2 , \\\\frac { 1 } { 3 } \\\\right)$$","option":"","pos":[{"x":957,"y":815},{"x":1112,"y":815},{"x":1112,"y":894},{"x":957,"y":894}]},{"type":1,"prob":90,"string":".","option":"","pos":[{"x":1124,"y":840},{"x":1267,"y":838},{"x":1267,"y":874},{"x":1125,"y":876}]},{"type":1,"prob":100,"string":"\_\_\_\_","option":"","pos":[{"x":1147,"y":856},{"x":1258,"y":856},{"x":1258,"y":868},{"x":1147,"y":868}]}]}]},{"index":5,"type":1,"num\_choices":0,"prob":0,"text":"(14)设A为3阶矩阵,$$\\\\alpha \_ { 1 } , \\\\alpha \_ { 2 } , \\\\alpha \_ { 3 }$$,为线性无关的向量组.若$$A a \_ { 1 } = 2 a \_ { 1 } + a \_ { 2 } + a \_ { 3 } , A a \_ { 2 } = a \_ { 2 } + 2 a \_ { 3 } ,$$$$A a \_ { 3 } = - a \_ { 2 } + a \_ { 3 } ,$$则A的实特征值为.\_\_\_\_","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":724,"y":964},{"x":836,"y":964},{"x":836,"y":1001},{"x":724,"y":1001}]],"pos\_list":[[{"x":54,"y":906},{"x":1593,"y":906},{"x":1593,"y":1008},{"x":54,"y":1008}]],"element\_list":[{"type":0,"text":"(14)设A为3阶矩阵,$$\\\\alpha \_ { 1 } , \\\\alpha \_ { 2 } , \\\\alpha \_ { 3 }$$,为线性无关的向量组.若$$A a \_ { 1 } = 2 a \_ { 1 } + a \_ { 2 } + a \_ { 3 } , A a \_ { 2 } = a \_ { 2 } + 2 a \_ { 3 } ,$$$$A a \_ { 3 } = - a \_ { 2 } + a \_ { 3 } ,$$则A的实特征值为.\_\_\_\_","pos\_list":[[{"x":54,"y":911},{"x":1593,"y":909},{"x":1593,"y":1005},{"x":54,"y":1008}]],"content\_list":[{"type":1,"prob":99,"string":"(14)设A为3阶矩阵,","option":"","pos":[{"x":54,"y":915},{"x":422,"y":915},{"x":422,"y":946},{"x":54,"y":946}]},{"type":2,"prob":99,"string":"$$\\\\alpha \_ { 1 } , \\\\alpha \_ { 2 } , \\\\alpha \_ { 3 }$$","option":"","pos":[{"x":422,"y":916},{"x":588,"y":915},{"x":589,"y":952},{"x":422,"y":952}]},{"type":1,"prob":97,"string":",为线性无关的向量组.若","option":"","pos":[{"x":588,"y":915},{"x":989,"y":914},{"x":989,"y":945},{"x":588,"y":945}]},{"type":2,"prob":99,"string":"$$A a \_ { 1 } = 2 a \_ { 1 } + a \_ { 2 } + a \_ { 3 } , A a \_ { 2 } = a \_ { 2 } + 2 a \_ { 3 } ,$$","option":"","pos":[{"x":989,"y":910},{"x":1593,"y":911},{"x":1593,"y":954},{"x":989,"y":953}]},{"type":2,"prob":99,"string":"$$A a \_ { 3 } = - a \_ { 2 } + a \_ { 3 } ,$$","option":"","pos":[{"x":141,"y":966},{"x":419,"y":966},{"x":419,"y":1007},{"x":141,"y":1008}]},{"type":1,"prob":99,"string":"则A的实特征值为.","option":"","pos":[{"x":419,"y":969},{"x":843,"y":968},{"x":843,"y":1001},{"x":419,"y":1002}]},{"type":1,"prob":100,"string":"\_\_\_\_","option":"","pos":[{"x":725,"y":991},{"x":834,"y":991},{"x":834,"y":1003},{"x":725,"y":1003}]}]}]}]},{"part\_title":"三、解答题(本题共9小题,共94分,解答应写出文字说明、证明过程或演算步骤.)","pos\_list":[[{"x":54,"y":1076},{"x":1338,"y":1077},{"x":1338,"y":1895},{"x":54,"y":1896}]],"subject\_list":[{"index":0,"type":15,"num\_choices":0,"prob":0,"text":"(15)(本题满分10分)求不定积分$$\\\\int e ^ { 2 x } a r c \\\\tan \\\\sqrt { e ^ { x } - 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t \\\\right) d t = a x ^ { 2 } .$$(I)求f(x);(Ⅱ)若f(x)在区间[0,1]上的平均值为1,求a的值.","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1660},{"x":1654,"y":1660},{"x":1654,"y":2339},{"x":0,"y":2339}]],"pos\_list":[[{"x":54,"y":1660},{"x":1018,"y":1660},{"x":1019,"y":1907},{"x":54,"y":1907}]],"element\_list":[{"type":0,"text":"(16)(本题满分10分)","pos\_list":[[{"x":54,"y":1662},{"x":419,"y":1662},{"x":419,"y":1694},{"x":54,"y":1694}]],"content\_list":[{"type":1,"prob":99,"string":"(16)(本题满分10分)","option":"","pos":[{"x":54,"y":1662},{"x":419,"y":1662},{"x":419,"y":1694},{"x":54,"y":1694}]}]},{"type":0,"text":"已知连续函数f(x)满足$$\\\\int \_ { 0 } ^ { x } f \\\\left( t \\\\right) d t + \\\\int \_ { 0 } ^ { x } t f \\\\left( x - t \\\\right) d t = a x ^ { 2 } .$$(I)求f(x);(Ⅱ)若f(x)在区间[0,1]上的平均值为1,求a的值.","pos\_list":[[{"x":140,"y":1709},{"x":1013,"y":1709},{"x":1013,"y":1895},{"x":141,"y":1896}]],"content\_list":[{"type":1,"prob":99,"string":"已知连续函数f(x)满足","option":"","pos":[{"x":141,"y":1726},{"x":527,"y":1726},{"x":527,"y":1778},{"x":141,"y":1778}]},{"type":2,"prob":99,"string":"$$\\\\int \_ { 0 } ^ { x } f \\\\left( t \\\\right) d t + \\\\int \_ { 0 } ^ { x } t f \\\\left( x - 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