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} }$$ $$\\\\left( C \\\\right) \\\\frac { \\\\partial ^ { 2 } u } { \\\\partial x ^ { x } y } = \\\\frac { g ^ { 2 } u } { \\\\partial y ^ { 2 } }$$ $$\\\\left( D \\\\right) \\\\frac { g ^ { 2 } u } { \\\\partial x \\\\theta y } = \\\\frac { \\\\partial ^ { 2 } u } { \\\\partial { x ^ { 2 } } } .$$","pos\_list":[[{"x":173,"y":118},{"x":1525,"y":120},{"x":1524,"y":215},{"x":172,"y":213}]],"content\_list":[{"type":2,"prob":92,"string":"$$\\\\left( A \\\\right) \\\\frac { g ^ { 2 } u } { \\\\partial { x ^ { 2 } } } = - \\\\frac { a ^ { 2 } u } { d y ^ { 2 } } .$$","option":"","pos":[{"x":173,"y":123},{"x":429,"y":119},{"x":430,"y":210},{"x":174,"y":213}]},{"type":2,"prob":94,"string":"$$\\\\left( B \\\\right) \\\\frac { g ^ { 2 } u } { \\\\partial { x ^ { 2 } } } = \\\\frac { \\\\partial ^ { 2 } u } { \\\\partial y ^ { 2 } }$$","option":"","pos":[{"x":550,"y":120},{"x":776,"y":120},{"x":776,"y":211},{"x":550,"y":210}]},{"type":2,"prob":87,"string":"$$\\\\left( C \\\\right) \\\\frac { 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,$$则$$\\\\alpha \_ { 1 } , A \\\\left( \\\\alpha \_ { 1 } + \\\\alpha \_ { 2 } \\\\right)$$线性无关的充分必要条件是( )$$\\\\left( A \\\\right) \\\\lambda \_ { 1 } \\\\ne 0 .$$ $$\\\\left( B \\\\right) \\\\lambda \_ { 2 } \\\\ne 0 .$$ $$\\\\left( C \\\\right) \\\\lambda \_ { 1 } = 0 .$$ $$\\\\left( D \\\\right) \\\\lambda \_ { 2 } = 0 .$$","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":559,"y":603},{"x":662,"y":603},{"x":662,"y":640},{"x":559,"y":640}]],"pos\_list":[[{"x":79,"y":540},{"x":1571,"y":540},{"x":1571,"y":696},{"x":79,"y":696}]],"element\_list":[{"type":0,"text":"(13)设$$\\\\lambda \_ { 1 } , \\\\lambda \_ { 2 }$$是矩阵A的两个不同的特征值,对应的特征向量分别为$$\\\\alpha \_ { 1 } , \\\\alpha \_ { 2 } ,$$则$$\\\\alpha \_ { 1 } , A \\\\left( \\\\alpha \_ { 1 } + \\\\alpha \_ { 2 } \\\\right)$$线性无关的充分必要条件是( 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}$$上任一点M(x,y)分别作垂直于x轴和y轴的直线$$l \_ { x }$$和$$l \_ { y } .$$记$$C \_ { 1 } , C \_ { 2 }$$与$$l \_ { x }$$所围图形的面积为$$S \_ { 1 } \\\\left( x \\\\right) ; C \_ { 2 } , C \_ { 3 }$$与$$l \_ { v }$$所围图形的面积为$$S \_ { 2 } \\\\left( y \\\\right) .$$如果总有$$S \_ { 1 } \\\\left( x \\\\right) =$$$$S \_ { 2 } \\\\left( y \\\\right) ,$$,求曲线$$C \_ { 3 }$$的方程x=φ(y).","figure\_list":[[{"x":1199,"y":1427},{"x":1563,"y":1427},{"x":1563,"y":1740},{"x":1199,"y":1740}]],"table\_list":[],"answer\_list":[[{"x":0,"y":1360},{"x":1654,"y":1360},{"x":1654,"y":1783},{"x":0,"y":1783}]],"pos\_list":[[{"x":78,"y":1360},{"x":1575,"y":1361},{"x":1575,"y":1763},{"x":78,"y":1763}]],"element\_list":[{"type":0,"text":"(16)(本题满分11分)","pos\_list":[[{"x":78,"y":1366},{"x":433,"y":1366},{"x":433,"y":1398},{"x":78,"y":1397}]],"content\_list":[{"type":1,"prob":99,"string":"(16)(本题满分11分)","option":"","pos":[{"x":78,"y":1366},{"x":433,"y":1366},{"x":433,"y":1398},{"x":78,"y":1397}]}]},{"type":0,"text":"如图,$$C \_ { 1 }$$和$$C \_ { 2 }$$分别是$$y = \\\\frac { 1 } { 2 } \\\\left( 1 + e ^ { x } \\\\right)$$和$$y = e ^ { x }$$的图像,过点(0,1)的曲线$$C \_ { 3 }$$是一单调增函数的图像,过$$C \_ { 2 }$$上任一点M(x,y)分别作垂直于x轴和y轴的直线$$l \_ { x }$$和$$l \_ { y } .$$记$$C \_ { 1 } , C \_ { 2 }$$与$$l \_ { x }$$所围图形的面积为$$S \_ { 1 } \\\\left( x \\\\right) ; C \_ { 2 } , C \_ { 3 }$$与$$l \_ { v }$$所围图形的面积为$$S \_ { 2 } \\\\left( y \\\\right) .$$如果总有$$S \_ { 1 } \\\\left( x \\\\right) =$$$$S \_ { 2 } \\\\left( y \\\\right) ,$$,求曲线$$C \_ { 3 }$$的方程x=φ(y).","pos\_list":[[{"x":162,"y":1420},{"x":1166,"y":1419},{"x":1166,"y":1716},{"x":162,"y":1716}]],"content\_list":[{"type":1,"prob":99,"string":"如图,","option":"","pos":[{"x":163,"y":1431},{"x":253,"y":1431},{"x":253,"y":1485},{"x":163,"y":1485}]},{"type":2,"prob":99,"string":"$$C \_ { 1 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}$$分别是曲线C在点(0,0)与(3,2)处的切线,其交点为(2,4).设函数f(x)具有三阶连续导数,计算定积分$$\\\\int \_ { 0 } ^ { 3 } \\\\left( x ^ { 2 } + x \\\\right) f \' \' \\\\left( x \\\\right) d x .$$","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1783},{"x":1654,"y":1783},{"x":1654,"y":2339},{"x":0,"y":2339}]],"pos\_list":[[{"x":78,"y":1783},{"x":1137,"y":1783},{"x":1137,"y":2071},{"x":78,"y":2071}]],"element\_list":[{"type":0,"text":"(17)(本题满分11分)","pos\_list":[[{"x":78,"y":1783},{"x":433,"y":1783},{"x":433,"y":1814},{"x":78,"y":1815}]],"content\_list":[{"type":1,"prob":99,"string":"(17)(本题满分11分)","option":"","pos":[{"x":78,"y":1783},{"x":433,"y":1783},{"x":433,"y":1814},{"x":78,"y":1815}]}]},{"type":0,"text":"如图,曲线C的方程为y=f(x),点(3,2)是它的一个拐点,直线$$l \_ { 1 }$$与$$l \_ { 2 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