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(B)a=0.4,b=0.1.(C)a=0.3,b=0.2. (D)a=0.1,b=0.4.","figure\_list":[],"table\_list":[[{"x":509,"y":660},{"x":1229,"y":660},{"x":1229,"y":915},{"x":509,"y":915}]],"answer\_list":[[{"x":966,"y":934},{"x":1072,"y":934},{"x":1072,"y":970},{"x":966,"y":970}]],"pos\_list":[[{"x":78,"y":606},{"x":1257,"y":606},{"x":1257,"y":1079},{"x":78,"y":1079}]],"element\_list":[{"type":0,"text":"(13)设二维随机变量(X,Y)的概率分布为","pos\_list":[[{"x":78,"y":614},{"x":735,"y":612},{"x":735,"y":643},{"x":78,"y":645}]],"content\_list":[{"type":1,"prob":99,"string":"(13)设二维随机变量(X,Y)的概率分布为","option":"","pos":[{"x":78,"y":614},{"x":735,"y":612},{"x":735,"y":643},{"x":78,"y":645}]}]},{"type":0,"text":"已知随机事件{X=0}与{X+Y=1}相互独立,则( )","pos\_list":[[{"x":163,"y":929},{"x":1072,"y":929},{"x":1072,"y":970},{"x":163,"y":970}]],"content\_list":[{"type":1,"prob":99,"string":"已知随机事件","option":"","pos":[{"x":163,"y":934},{"x":387,"y":934},{"x":387,"y":965},{"x":163,"y":965}]},{"type":1,"prob":92,"string":"{X=0}","option":"","pos":[{"x":387,"y":930},{"x":507,"y":930},{"x":507,"y":970},{"x":387,"y":969}]},{"type":1,"prob":99,"string":"与","option":"","pos":[{"x":507,"y":934},{"x":566,"y":934},{"x":566,"y":965},{"x":507,"y":965}]},{"type":1,"prob":98,"string":"{X+Y=1}","option":"","pos":[{"x":566,"y":929},{"x":750,"y":929},{"x":750,"y":969},{"x":566,"y":969}]},{"type":1,"prob":99,"string":"相互独立,则()","option":"","pos":[{"x":750,"y":934},{"x":1072,"y":933},{"x":1072,"y":964},{"x":750,"y":965}]}]},{"type":0,"text":"(A)a=0.2,b=0.3. (B)a=0.4,b=0.1.(C)a=0.3,b=0.2. 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1 \\\\right) ^ { x } } { S } - t \\\\left( n - 1 \\\\right) .$$ F(1,n-1).","figure\_list":[[{"x":978,"y":1233},{"x":1178,"y":1233},{"x":1178,"y":1390},{"x":978,"y":1390}]],"table\_list":[],"answer\_list":[[{"x":204,"y":1147},{"x":308,"y":1147},{"x":308,"y":1182},{"x":204,"y":1182}]],"pos\_list":[[{"x":78,"y":1083},{"x":1578,"y":1083},{"x":1578,"y":1390},{"x":78,"y":1390}]],"element\_list":[{"type":0,"text":"(14)设$$X \_ { 1 } , X \_ { 2 } , \\\\cdots , X \_ { n } \\\\left( n \\\\ge 2 \\\\right)$$为来自总体N(0,1)的简单随机样本,$$\\\\overline { X }$$为样本均值,$$S ^ { 2 }$$为样本方差,则( )","pos\_list":[[{"x":78,"y":1089},{"x":1569,"y":1085},{"x":1569,"y":1177},{"x":78,"y":1181}]],"content\_list":[{"type":1,"prob":99,"string":"(14)设","option":"","pos":[{"x":78,"y":1096},{"x":204,"y":1095},{"x":204,"y":1127},{"x":78,"y":1127}]},{"type":2,"prob":99,"string":"$$X \_ { 1 } , X \_ { 2 } , \\\\cdots , X \_ { n } \\\\left( n \\\\ge 2 \\\\right)$$","option":"","pos":[{"x":204,"y":1091},{"x":524,"y":1088},{"x":524,"y":1134},{"x":204,"y":1137}]},{"type":1,"prob":99,"string":"为来自总体N(0,1)的简单随机样本,","option":"","pos":[{"x":524,"y":1095},{"x":1108,"y":1093},{"x":1108,"y":1125},{"x":524,"y":1126}]},{"type":2,"prob":92,"string":"$$\\\\overline { X }$$","option":"","pos":[{"x":1108,"y":1088},{"x":1138,"y":1088},{"x":1138,"y":1126},{"x":1108,"y":1126}]},{"type":1,"prob":99,"string":"为样本均值,","option":"","pos":[{"x":1138,"y":1093},{"x":1334,"y":1093},{"x":1334,"y":1124},{"x":1138,"y":1125}]},{"type":2,"prob":99,"string":"$$S ^ { 2 }$$","option":"","pos":[{"x":1334,"y":1088},{"x":1370,"y":1088},{"x":1370,"y":1127},{"x":1334,"y":1127}]},{"type":1,"prob":99,"string":"为样本方差,","option":"","pos":[{"x":1370,"y":1093},{"x":1569,"y":1092},{"x":1569,"y":1124},{"x":1370,"y":1124}]},{"type":1,"prob":99,"string":"则()","option":"","pos":[{"x":162,"y":1149},{"x":309,"y":1149},{"x":309,"y":1180},{"x":162,"y":1180}]}]},{"type":0,"text":"(A)nX∼N(0,1). $$\\\\left( B \\\\right) n S ^ { 2 } \\\\sim x ^ { 2 } \\\\left( n \\\\right) .$$$$\\\\left( C \\\\right) \\\\frac { \\\\left( n - 1 \\\\right) ^ { x } } { S } - t \\\\left( n - 1 \\\\right) .$$ F(1,n-1).","pos\_list":[[{"x":167,"y":1195},{"x":1393,"y":1192},{"x":1394,"y":1389},{"x":168,"y":1393}]],"content\_list":[{"type":1,"prob":97,"string":"(A)nX∼N(0,1).","option":"","pos":[{"x":167,"y":1195},{"x":450,"y":1194},{"x":450,"y":1238},{"x":168,"y":1240}]},{"type":2,"prob":98,"string":"$$\\\\left( B \\\\right) n S ^ { 2 } \\\\sim x ^ { 2 } \\\\left( n \\\\right) .$$","option":"","pos":[{"x":919,"y":1194},{"x":1183,"y":1193},{"x":1183,"y":1239},{"x":919,"y":1240}]},{"type":2,"prob":92,"string":"$$\\\\left( C \\\\right) \\\\frac { \\\\left( n - 1 \\\\right) ^ { x } } { S } - t \\\\left( n - 1 \\\\right) .$$","option":"","pos":[{"x":170,"y":1252},{"x":574,"y":1246},{"x":575,"y":1332},{"x":171,"y":1337}]},{"type":1,"prob":100,"string":"","option":"","pos":[{"x":978,"y":1233},{"x":1178,"y":1233},{"x":1178,"y":1390},{"x":978,"y":1390}]},{"type":1,"prob":98,"string":"F(1,n-1).","option":"","pos":[{"x":1202,"y":1269},{"x":1393,"y":1270},{"x":1393,"y":1319},{"x":1202,"y":1318}]}]}]}]},{"part\_title":"三、解答题(本题共9小题,满分94分.解答应写出文字说明、证明过程或演算步骤)","pos\_list":[[{"x":78,"y":1455},{"x":1574,"y":1455},{"x":1574,"y":2248},{"x":78,"y":2248}]],"subject\_list":[{"index":0,"type":15,"num\_choices":0,"prob":0,"text":"(15)(本题满分11分)设$$D = \\\\left\\\\{ \\\\left( x , y \\\\right) | x ^ { 2 } + y ^ { 2 } \\\\le \\\\sqrt 2 , x \\\\ge 0 , y \\\\ge 0 \\\\right\\\\} , \\\\left[ 1 + x ^ { 2 } + y ^ { 2 } \\\\right]$$表示不超过$$1 + x ^ { 2 } + y ^ { 2 }$$的最大整数,计算二重积分$$\\\\int { x y \\\\left[ 1 + x ^ { 2 } + y ^ { 2 } } \\\\right] d x d y .$$D(16)(本题满分12分)求幂级数$$\\\\sum \_ { n = 1 } ^ { \\\\alpha } { \\\\left( - 1 \\\\right) ^ { n - 1 } } \\\\left[ 1 + \\\\frac { 1 } { n \\\\left( 2 n - 1 \\\\right) } \\\\right] x ^ { 2 n }$$的收敛区问与和函数f(x).(17)(本题满分11分)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$$l \_ { 2 }$$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":[[{"x":1185,"y":1903},{"x":1574,"y":1903},{"x":1574,"y":2248},{"x":1185,"y":2248}]],"table\_list":[],"answer\_list":[[{"x":0,"y":1504},{"x":1654,"y":1504},{"x":1654,"y":2339},{"x":0,"y":2339}]],"pos\_list":[[{"x":61,"y":1504},{"x":1603,"y":1504},{"x":1603,"y":2248},{"x":61,"y":2248}]],"element\_list":[{"type":0,"text":"(15)(本题满分11分)","pos\_list":[[{"x":79,"y":1510},{"x":431,"y":1509},{"x":431,"y":1541},{"x":79,"y":1541}]],"content\_list":[{"type":1,"prob":99,"string":"(15)(本题满分11分)","option":"","pos":[{"x":79,"y":1510},{"x":431,"y":1509},{"x":431,"y":1541},{"x":79,"y":1541}]}]},{"type":0,"text":"设$$D = \\\\left\\\\{ \\\\left( x , y \\\\right) | x ^ { 2 } + y ^ { 2 } \\\\le \\\\sqrt 2 , x \\\\ge 0 , y \\\\ge 0 \\\\right\\\\} , \\\\left[ 1 + x ^ { 2 } + y ^ { 2 } \\\\right]$$表示不超过$$1 + x ^ { 2 } + y ^ { 2 }$$的最大整数,计算二重积分$$\\\\int { x y \\\\left[ 1 + x ^ { 2 } + y ^ { 2 } } \\\\right] d x d y .$$","pos\_list":[[{"x":172,"y":1560},{"x":1570,"y":1560},{"x":1570,"y":1695},{"x":173,"y":1695}]],"content\_list":[{"type":1,"prob":99,"string":"设","option":"","pos":[{"x":173,"y":1572},{"x":211,"y":1572},{"x":211,"y":1608},{"x":173,"y":1608}]},{"type":2,"prob":99,"string":"$$D = \\\\left\\\\{ \\\\left( x , y \\\\right) | x ^ { 2 } + y ^ { 2 } \\\\le \\\\sqrt 2 , x \\\\ge 0 , y \\\\ge 0 \\\\right\\\\} , \\\\left[ 1 + x ^ { 2 } + y ^ { 2 } \\\\right]$$","option":"","pos":[{"x":211,"y":1564},{"x":1063,"y":1560},{"x":1063,"y":1611},{"x":211,"y":1615}]},{"type":1,"prob":99,"string":"表示不超过","option":"","pos":[{"x":1063,"y":1570},{"x":1259,"y":1570},{"x":1259,"y":1603},{"x":1063,"y":1604}]},{"type":2,"prob":99,"string":"$$1 + x ^ { 2 } + y ^ { 2 }$$","option":"","pos":[{"x":1259,"y":1564},{"x":1424,"y":1565},{"x":1424,"y":1608},{"x":1259,"y":1608}]},{"type":1,"prob":99,"string":"的最大整","option":"","pos":[{"x":1424,"y":1569},{"x":1570,"y":1569},{"x":1570,"y":1602},{"x":1424,"y":1603}]},{"type":1,"prob":99,"string":"数,计算二重积分","option":"","pos":[{"x":173,"y":1640},{"x":436,"y":1640},{"x":436,"y":1682},{"x":173,"y":1682}]},{"type":2,"prob":97,"string":"$$\\\\int { x y \\\\left[ 1 + x ^ { 2 } + y ^ { 2 } } \\\\right] d x d y .$$","option":"","pos":[{"x":436,"y":1627},{"x":775,"y":1627},{"x":775,"y":1695},{"x":436,"y":1695}]}]},{"type":0,"text":"D","pos\_list":[[{"x":429,"y":1694},{"x":447,"y":1694},{"x":447,"y":1710},{"x":429,"y":1710}]],"content\_list":[{"type":1,"prob":99,"string":"D","option":"","pos":[{"x":429,"y":1694},{"x":447,"y":1694},{"x":447,"y":1710},{"x":429,"y":1710}]}]},{"type":0,"text":"(16)(本题满分12分)","pos\_list":[[{"x":78,"y":1724},{"x":432,"y":1723},{"x":432,"y":1755},{"x":78,"y":1757}]],"content\_list":[{"type":1,"prob":99,"string":"(16)(本题满分12分)","option":"","pos":[{"x":78,"y":1724},{"x":432,"y":1723},{"x":432,"y":1755},{"x":78,"y":1757}]}]},{"type":0,"text":"求幂级数$$\\\\sum \_ { n = 1 } ^ { \\\\alpha } { \\\\left( - 1 \\\\right) ^ { n - 1 } } \\\\left[ 1 + \\\\frac { 1 } { n \\\\left( 2 n - 1 \\\\right) } \\\\right] x ^ { 2 n }$$的收敛区问与和函数f(x).","pos\_list":[[{"x":163,"y":1778},{"x":1153,"y":1781},{"x":1152,"y":1868},{"x":162,"y":1865}]],"content\_list":[{"type":1,"prob":99,"string":"求幂级数","option":"","pos":[{"x":163,"y":1805},{"x":297,"y":1805},{"x":297,"y":1835},{"x":162,"y":1835}]},{"type":2,"prob":98,"string":"$$\\\\sum \_ { n = 1 } ^ { \\\\alpha } { \\\\left( - 1 \\\\right) ^ { n - 1 } } \\\\left[ 1 + \\\\frac { 1 } { n \\\\left( 2 n - 1 \\\\right) } \\\\right] x ^ { 2 n }$$","option":"","pos":[{"x":305,"y":1779},{"x":757,"y":1781},{"x":756,"y":1866},{"x":304,"y":1864}]},{"type":1,"prob":96,"string":"的收敛区问与和函数f(x).","option":"","pos":[{"x":757,"y":1791},{"x":1153,"y":1792},{"x":1152,"y":1855},{"x":757,"y":1854}]}]},{"type":0,"text":"(17)(本题满分11分)","pos\_list":[[{"x":79,"y":1885},{"x":434,"y":1883},{"x":434,"y":1915},{"x":79,"y":1917}]],"content\_list":[{"type":1,"prob":99,"string":"(17)(本题满分11分)","option":"","pos":[{"x":79,"y":1885},{"x":434,"y":1883},{"x":434,"y":1915},{"x":79,"y":1917}]}]},{"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$$l \_ { 2 }$$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","pos\_list":[[{"x":160,"y":1934},{"x":1134,"y":1934},{"x":1134,"y":2074},{"x":160,"y":2075}]],"content\_list":[{"type":1,"prob":99,"string":"如图,曲线C的方程为","option":"","pos":[{"x":160,"y":1938},{"x":488,"y":1937},{"x":488,"y":1969},{"x":160,"y":1970}]},{"type":1,"prob":99,"string":"y=f(x),","option":"","pos":[{"x":488,"y":1934},{"x":625,"y":1934},{"x":625,"y":1976},{"x":488,"y":1976}]},{"type":1,"prob":97,"string":",点(3,2)是它的一个拐点,直线","option":"","pos":[{"x":625,"y":1937},{"x":1075,"y":1936},{"x":1075,"y":1967},{"x":625,"y":1968}]},{"type":2,"prob":99,"string":"$$l \_ { 1 }$$","option":"","pos":[{"x":1075,"y":1937},{"x":1099,"y":1937},{"x":1099,"y":1974},{"x":1075,"y":1974}]},{"type":1,"prob":99,"string":"与","option":"","pos":[{"x":1099,"y":1934},{"x":1134,"y":1934},{"x":1134,"y":1968},{"x":1099,"y":1968}]},{"type":2,"prob":99,"string":"$$l \_ { 2 }$$","option":"","pos":[{"x":161,"y":1987},{"x":189,"y":1987},{"x":189,"y":2029},{"x":161,"y":2029}]},{"type":1,"prob":98,"string":"分别是曲线C在点(0,0)与(3,2)处的切线,其交点为(2,4).","option":"","pos":[{"x":189,"y":1990},{"x":1129,"y":1991},{"x":1129,"y":2022},{"x":189,"y":2021}]},{"type":1,"prob":99,"string":"设函数f(x)具有三阶连续导数,计算定积分","option":"","pos":[{"x":164,"y":2044},{"x":839,"y":2044},{"x":839,"y":2075},{"x":164,"y":2075}]}]},{"type":0,"text":"$$\\\\int \_ { 0 } ^ { 3 } \\\\left( x ^ { 2 } + x \\\\right) f \' \' \\\\left( x \\\\right) d x .$$","pos\_list":[[{"x":489,"y":2092},{"x":796,"y":2091},{"x":796,"y":2173},{"x":489,"y":2174}]],"content\_list":[{"type":2,"prob":96,"string":"$$\\\\int \_ { 0 } ^ { 3 } \\\\left( x ^ { 2 } + x \\\\right) f \' \' \\\\left( x \\\\right) d x .$$","option":"","pos":[{"x":489,"y":2092},{"x":796,"y":2091},{"x":796,"y":2173},{"x":489,"y":2174}]}]}]}]}],"prism\_version":"1.0.9","prism\_wnum":0,"width":1654}', 'RequestId': 'E75ABD5A-60C8-59F1-8F06-33C4CDB18E23'}}