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(B)0.3. (C)0.7. 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=$$.\_\_\_\_2","pos\_list":[[{"x":80,"y":1550},{"x":1046,"y":1550},{"x":1046,"y":1633},{"x":80,"y":1633}]],"content\_list":[{"type":1,"prob":99,"string":"(12)设","option":"","pos":[{"x":80,"y":1563},{"x":197,"y":1563},{"x":197,"y":1606},{"x":80,"y":1605}]},{"type":2,"prob":96,"string":"$$\\\\Omega = \\\\left\\\\{ \\\\left( x , y , z \\\\right) | x ^ { 2 } + y ^ { 2 } + z ^ { 2 } \\\\le 1 \\\\right. \\\\right\\\\} ,$$","option":"","pos":[{"x":197,"y":1558},{"x":679,"y":1556},{"x":679,"y":1608},{"x":197,"y":1610}]},{"type":1,"prob":99,"string":"则","option":"","pos":[{"x":679,"y":1564},{"x":731,"y":1564},{"x":731,"y":1608},{"x":679,"y":1608}]},{"type":2,"prob":93,"string":"$$则 z ^ { 2 } d x d y d z 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,$$则非齐次方程y\'+ay\'+by=x满足条件y(0)=2,y\'(0)=0的解为y=.\_\_\_\_","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":1010,"y":1397},{"x":1117,"y":1397},{"x":1117,"y":1436},{"x":1010,"y":1436}]],"pos\_list":[[{"x":79,"y":1340},{"x":1571,"y":1340},{"x":1571,"y":1440},{"x":79,"y":1440}]],"element\_list":[{"type":0,"text":"(10)若二阶常系数线性齐次微分方程y\'+ay\'+by=0的通解为$$y = \\\\left( C \_ { 1 } + C \_ { 2 } x \\\\right) e ^ { x } 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}$$分别为样本均值和样本方差,若$$\\\\overline { X } + k S ^ { 2 }$$为$$n p ^ { 2 }$$的无偏估计量,则k= .\_\_\_\_","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":868,"y":1764},{"x":975,"y":1764},{"x":975,"y":1804},{"x":868,"y":1804}]],"pos\_list":[[{"x":77,"y":1702},{"x":1575,"y":1702},{"x":1575,"y":1812},{"x":77,"y":1811}]],"element\_list":[{"type":0,"text":"(14)设$$X \_ { 1 } , X \_ { 2 } , \\\\cdots , X \_ { m }$$为来自二项分布总体B(n,p)的简单随机样本,$$\\\\overline { X }$$和$$S ^ { 2 }$$分别为样本均值和样本方差,若$$\\\\overline { X } + k S ^ { 2 }$$为$$n p ^ { 2 }$$的无偏估计量,则k= .\_\_\_\_","pos\_list":[[{"x":79,"y":1706},{"x":1572,"y":1700},{"x":1572,"y":1803},{"x":80,"y":1809}]],"content\_list":[{"type":1,"prob":99,"string":"(14)设","option":"","pos":[{"x":79,"y":1712},{"x":195,"y":1711},{"x":196,"y":1744},{"x":79,"y":1745}]},{"type":2,"prob":99,"string":"$$X \_ { 1 } , X \_ { 2 } , \\\\cdots , X \_ { m 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\_ { n }$$为曲线$$y = x ^ { n }$$与$$y = x ^ { n + 1 } \\\\left( n = 1 , 2 , \\\\cdots$$)所围成区域的面积,记$$S \_ { 1 } = \\\\sum \_ { n = 1 } ^ { \\\\infty } { a \_ { n } } , S \_ { 2 } = \\\\sum \_ { n = 1 } ^ { \\\\infty } { a \_ { 2 n - 1 } } ,$$求$$S \_ { 1 }$$与$$S \_ { 2 }$$的值.","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":2033},{"x":1654,"y":2033},{"x":1654,"y":2339},{"x":0,"y":2339}]],"pos\_list":[[{"x":80,"y":2033},{"x":1569,"y":2033},{"x":1569,"y":2264},{"x":80,"y":2264}]],"element\_list":[{"type":0,"text":"(16)(本题满分9分)","pos\_list":[[{"x":80,"y":2050},{"x":404,"y":2050},{"x":404,"y":2082},{"x":80,"y":2082}]],"content\_list":[{"type":1,"prob":99,"string":"(16)(本题满分9分)","option":"","pos":[{"x":80,"y":2050},{"x":404,"y":2050},{"x":404,"y":2082},{"x":80,"y":2082}]}]},{"type":0,"text":"$$a \_ { n }$$为曲线$$y = x ^ { n }$$与$$y = x ^ { n + 1 } \\\\left( n = 1 , 2 , \\\\cdots$$)所围成区域的面积,记$$S \_ { 1 } = \\\\sum \_ { n = 1 } ^ { \\\\infty } { a \_ { n } } , S \_ { 2 } = \\\\sum \_ { n = 1 } ^ { \\\\infty } { a \_ { 2 n - 1 } } ,$$求$$S \_ { 1 }$$与$$S \_ { 2 }$$的值.","pos\_list":[[{"x":153,"y":2111},{"x":1569,"y":2108},{"x":1570,"y":2245},{"x":154,"y":2247}]],"content\_list":[{"type":2,"prob":99,"string":"$$a \_ { n }$$","option":"","pos":[{"x":197,"y":2139},{"x":231,"y":2139},{"x":231,"y":2172},{"x":197,"y":2172}]},{"type":1,"prob":99,"string":"为曲线","option":"","pos":[{"x":230,"y":2116},{"x":352,"y":2116},{"x":352,"y":2182},{"x":230,"y":2182}]},{"type":2,"prob":99,"string":"$$y = x ^ { n }$$","option":"","pos":[{"x":352,"y":2132},{"x":437,"y":2132},{"x":437,"y":2171},{"x":352,"y":2171}]},{"type":1,"prob":99,"string":"与","option":"","pos":[{"x":437,"y":2111},{"x":486,"y":2111},{"x":486,"y":2187},{"x":437,"y":2187}]},{"type":2,"prob":99,"string":"$$y = x ^ { n + 1 } \\\\left( n = 1 , 2 , \\\\cdots$$","option":"","pos":[{"x":486,"y":2129},{"x":768,"y":2127},{"x":769,"y":2171},{"x":487,"y":2173}]},{"type":1,"prob":99,"string":")所围成区域的面积,记","option":"","pos":[{"x":768,"y":2116},{"x":1160,"y":2116},{"x":1160,"y":2182},{"x":768,"y":2182}]},{"type":2,"prob":95,"string":"$$S \_ { 1 } = \\\\sum \_ { n = 1 } ^ { \\\\infty } { a \_ { n } } , S \_ { 2 } = \\\\sum \_ { n = 1 } ^ { \\\\infty } { a \_ { 2 n - 1 } } ,$$","option":"","pos":[{"x":1160,"y":2111},{"x":1569,"y":2111},{"x":1569,"y":2190},{"x":1160,"y":2191}]},{"type":1,"prob":99,"string":"求","option":"","pos":[{"x":154,"y":2209},{"x":198,"y":2209},{"x":198,"y":2242},{"x":154,"y":2242}]},{"type":2,"prob":99,"string":"$$S \_ { 1 }$$","option":"","pos":[{"x":198,"y":2208},{"x":231,"y":2208},{"x":231,"y":2247},{"x":198,"y":2247}]},{"type":1,"prob":99,"string":"与","option":"","pos":[{"x":231,"y":2209},{"x":280,"y":2209},{"x":280,"y":2242},{"x":231,"y":2242}]},{"type":2,"prob":99,"string":"$$S \_ { 2 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