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4 x \_ { 1 } x \_ { 2 } + 4 x \_ { 2 } ^ { 2 }$$经正交变换$$\\\\left( \\\\frac { x \_ { 1 } } { x \_ { 2 } } \\\\right) = Q \\\\left( \_ { y \_ { 2 } } ^ { y \_ { 2 } } \\\\right)$$化为二次型$$g \\\\left( y \_ { 1 } , y \_ { 2 } \\\\right) = a y \_ { 1 } ^ { 2 } + 4 y \_ { 1 } y \_ { 2 } + b y \_ { 2 } ^ { 2 } ,$$ a≥b其中(I)求a,b的值;(Ⅱ)求正交矩阵Q.","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":163},{"x":1654,"y":163},{"x":1654,"y":636},{"x":0,"y":636}]],"pos\_list":[[{"x":144,"y":163},{"x":1418,"y":163},{"x":1418,"y":476},{"x":144,"y":476}]],"element\_list":[{"type":0,"text":"(20)(本题满分11分)","pos\_list":[[{"x":144,"y":164},{"x":478,"y":163},{"x":478,"y":191},{"x":144,"y":192}]],"content\_list":[{"type":1,"prob":99,"string":"(20)(本题满分11分)","option":"","pos":[{"x":144,"y":164},{"x":478,"y":163},{"x":478,"y":191},{"x":144,"y":192}]}]},{"type":0,"text":"设二次型$$f \\\\left( x \_ { 1 } , x \_ { 2 } \\\\right) = x \_ { 1 } ^ { 2 } - 4 x \_ { 1 } x \_ { 2 } + 4 x \_ { 2 } ^ { 2 }$$经正交变换$$\\\\left( \\\\frac { x \_ { 1 } } { x \_ { 2 } } \\\\right) = Q \\\\left( \_ { y \_ { 2 } } ^ { y \_ { 2 } } \\\\right)$$化为二次型$$g \\\\left( y \_ { 1 } , y \_ { 2 } \\\\right) = a y \_ { 1 } ^ { 2 } + 4 y \_ { 1 } y \_ { 2 } + b y \_ { 2 } ^ { 2 } ,$$ a≥b","pos\_list":[[{"x":220,"y":218},{"x":1409,"y":212},{"x":1410,"y":359},{"x":221,"y":365}]],"content\_list":[{"type":1,"prob":99,"string":"设二次型","option":"","pos":[{"x":222,"y":244},{"x":367,"y":243},{"x":367,"y":275},{"x":222,"y":276}]},{"type":2,"prob":99,"string":"$$f \\\\left( x \_ { 1 } , x \_ { 2 } \\\\right) = x \_ { 1 } ^ { 2 } - 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6 \\\\alpha = 0 ,$$求$$P ^ { - 1 } A P ,$$并判断A是否相似于对角矩阵.","pos\_list":[[{"x":223,"y":783},{"x":1282,"y":784},{"x":1282,"y":823},{"x":223,"y":822}]],"content\_list":[{"type":1,"prob":99,"string":"(Ⅱ)若","option":"","pos":[{"x":223,"y":788},{"x":343,"y":789},{"x":343,"y":817},{"x":223,"y":817}]},{"type":2,"prob":95,"string":"$$A ^ { 2 } \\\\alpha + A \\\\alpha - 6 \\\\alpha = 0 ,$$","option":"","pos":[{"x":343,"y":785},{"x":653,"y":785},{"x":653,"y":823},{"x":342,"y":822}]},{"type":1,"prob":99,"string":"求","option":"","pos":[{"x":653,"y":789},{"x":697,"y":789},{"x":697,"y":817},{"x":653,"y":817}]},{"type":2,"prob":99,"string":"$$P ^ { - 1 } A P ,$$","option":"","pos":[{"x":697,"y":784},{"x":814,"y":784},{"x":814,"y":820},{"x":697,"y":820}]},{"type":1,"prob":99,"string":"并判断A是否相似于对角矩阵.","option":"","pos":[{"x":814,"y":789},{"x":1282,"y":789},{"x":1282,"y":818},{"x":814,"y":817}]}]}]},{"index":2,"type":15,"num\_choices":0,"prob":0,"text":"(22)(本题满分11分)设随机变量$$X \_ { 1 } , X \_ { 2 } , X \_ { 3 }$$相互独立,其中$$X \_ { 1 }$$与$$X \_ { 2 }$$均服从标准正态分布,$$X \_ { 3 }$$的概率分布为$$P \\\\left\\\\{ X \_ { 3 } = 0 \\\\right\\\\} = P \\\\left( X \_ { 3 } = 1 \\\\right) = \\\\frac { 1 } { 2 } , Y = X \_ { 3 } X \_ { 1 } + \\\\left( 1 - X \_ { 3 } \\\\right) X \_ { 2 } .$$(I)求二维随机变量$$\\\\left( X \_ { 1 } , Y \\\\right)$$ 表示;的分布函数,结果用标准正态分布函数φ(x)(Ⅱ)证明随机变量Y服从标准正态分布.","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1044},{"x":1654,"y":1044},{"x":1654,"y":1553},{"x":0,"y":1553}]],"pos\_list":[[{"x":145,"y":1044},{"x":1524,"y":1044},{"x":1524,"y":1334},{"x":145,"y":1334}]],"element\_list":[{"type":0,"text":"(22)(本题满分11分)","pos\_list":[[{"x":145,"y":1048},{"x":477,"y":1047},{"x":477,"y":1076},{"x":145,"y":1076}]],"content\_list":[{"type":1,"prob":99,"string":"(22)(本题满分11分)","option":"","pos":[{"x":145,"y":1048},{"x":477,"y":1047},{"x":477,"y":1076},{"x":145,"y":1076}]}]},{"type":0,"text":"设随机变量$$X \_ { 1 } , X \_ { 2 } , X \_ { 3 }$$相互独立,其中$$X \_ { 1 }$$与$$X \_ { 2 }$$均服从标准正态分布,$$X \_ { 3 }$$的概率分布为$$P \\\\left\\\\{ X \_ { 3 } = 0 \\\\right\\\\} = P \\\\left( X \_ { 3 } = 1 \\\\right) = \\\\frac { 1 } { 2 } , Y = X \_ { 3 } X \_ { 1 } + \\\\left( 1 - X \_ { 3 } \\\\right) X \_ { 2 } .$$","pos\_list":[[{"x":221,"y":1097},{"x":1524,"y":1092},{"x":1524,"y":1226},{"x":221,"y":1231}]],"content\_list":[{"type":1,"prob":99,"string":"设随机变量","option":"","pos":[{"x":221,"y":1102},{"x":400,"y":1101},{"x":400,"y":1130},{"x":221,"y":1131}]},{"type":2,"prob":99,"string":"$$X \_ { 1 } , X \_ { 2 } , X \_ { 3 }$$","option":"","pos":[{"x":400,"y":1097},{"x":565,"y":1096},{"x":565,"y":1134},{"x":400,"y":1135}]},{"type":1,"prob":99,"string":"相互独立,其中","option":"","pos":[{"x":565,"y":1101},{"x":802,"y":1100},{"x":802,"y":1129},{"x":565,"y":1130}]},{"type":2,"prob":99,"string":"$$X \_ { 1 }$$","option":"","pos":[{"x":802,"y":1097},{"x":845,"y":1097},{"x":845,"y":1134},{"x":802,"y":1134}]},{"type":1,"prob":99,"string":"与","option":"","pos":[{"x":845,"y":1099},{"x":891,"y":1099},{"x":891,"y":1129},{"x":845,"y":1129}]},{"type":2,"prob":99,"string":"$$X \_ { 2 }$$","option":"","pos":[{"x":891,"y":1098},{"x":936,"y":1098},{"x":936,"y":1131},{"x":891,"y":1131}]},{"type":1,"prob":99,"string":"均服从标准正态分布,","option":"","pos":[{"x":936,"y":1099},{"x":1271,"y":1098},{"x":1272,"y":1127},{"x":936,"y":1128}]},{"type":2,"prob":99,"string":"$$X \_ { 3 }$$","option":"","pos":[{"x":1272,"y":1098},{"x":1312,"y":1098},{"x":1312,"y":1133},{"x":1272,"y":1133}]},{"type":1,"prob":99,"string":"的概率分布为","option":"","pos":[{"x":1312,"y":1098},{"x":1524,"y":1097},{"x":1524,"y":1126},{"x":1312,"y":1127}]},{"type":2,"prob":97,"string":"$$P \\\\left\\\\{ X \_ { 3 } = 0 \\\\right\\\\} = P \\\\left( X \_ { 3 } = 1 \\\\right) = \\\\frac { 1 } { 2 } , Y = X \_ { 3 } X \_ { 1 } + \\\\left( 1 - X \_ { 3 } \\\\right) X \_ { 2 } .$$","option":"","pos":[{"x":223,"y":1147},{"x":1068,"y":1144},{"x":1068,"y":1227},{"x":224,"y":1230}]}]},{"type":0,"text":"(I)求二维随机变量$$\\\\left( X \_ { 1 } , Y \\\\right)$$ 表示;","pos\_list":[[{"x":222,"y":1242},{"x":1425,"y":1242},{"x":1425,"y":1279},{"x":222,"y":1278}]],"content\_list":[{"type":1,"prob":95,"string":"(Ⅰ)求二维随机变量","option":"","pos":[{"x":222,"y":1244},{"x":544,"y":1244},{"x":544,"y":1273},{"x":222,"y":1273}]},{"type":2,"prob":99,"string":"$$\\\\left( X \_ { 1 } , Y \\\\right)$$","option":"","pos":[{"x":544,"y":1243},{"x":657,"y":1242},{"x":657,"y":1278},{"x":544,"y":1279}]},{"type":1,"prob":99,"string":"表示;","option":"","pos":[{"x":1331,"y":1245},{"x":1425,"y":1245},{"x":1425,"y":1273},{"x":1331,"y":1273}]}]},{"type":0,"text":"的分布函数,结果用标准正态分布函数φ(x)","pos\_list":[[{"x":657,"y":1243},{"x":1331,"y":1243},{"x":1331,"y":1277},{"x":657,"y":1277}]],"content\_list":[{"type":1,"prob":99,"string":"的分布函数,结果用标准正态分布函数","option":"","pos":[{"x":657,"y":1244},{"x":1245,"y":1245},{"x":1245,"y":1273},{"x":657,"y":1273}]},{"type":1,"prob":96,"string":"φ(x)","option":"","pos":[{"x":1245,"y":1243},{"x":1331,"y":1243},{"x":1331,"y":1277},{"x":1245,"y":1277}]}]},{"type":0,"text":"(Ⅱ)证明随机变量Y服从标准正态分布.","pos\_list":[[{"x":224,"y":1297},{"x":830,"y":1297},{"x":830,"y":1326},{"x":224,"y":1325}]],"content\_list":[{"type":1,"prob":99,"string":"(Ⅱ)证明随机变量Y服从标准正态分布.","option":"","pos":[{"x":224,"y":1297},{"x":830,"y":1297},{"x":830,"y":1326},{"x":224,"y":1325}]}]}]},{"index":3,"type":15,"num\_choices":0,"prob":0,"text":"(23)(本题满分11分)设某元件的使用寿命T的分布函数为其中θ,m为参数且大于零.(I)求概率P{T>t}与P{T>s+t|T>s},其中s>0,t>0;(Ⅱ)任取n个这种元件做寿命试验,测得它们的寿命分别为$$t \_ { 1 } , t \_ { 2 } , \\\\cdots , t \_ { n } ,$$若m已知,求θ的最大似然估计值","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1553},{"x":1654,"y":1553},{"x":1654,"y":2339},{"x":0,"y":2339}]],"pos\_list":[[{"x":135,"y":1553},{"x":1536,"y":1553},{"x":1536,"y":1995},{"x":135,"y":1995}]],"element\_list":[{"type":0,"text":"(23)(本题满分11分)","pos\_list":[[{"x":143,"y":1555},{"x":477,"y":1554},{"x":477,"y":1583},{"x":143,"y":1583}]],"content\_list":[{"type":1,"prob":99,"string":"(23)(本题满分11分)","option":"","pos":[{"x":143,"y":1555},{"x":477,"y":1554},{"x":477,"y":1583},{"x":143,"y":1583}]}]},{"type":0,"text":"设某元件的使用寿命T的分布函数为","pos\_list":[[{"x":221,"y":1606},{"x":783,"y":1607},{"x":783,"y":1635},{"x":221,"y":1635}]],"content\_list":[{"type":1,"prob":99,"string":"设某元件的使用寿命T的分布函数为","option":"","pos":[{"x":221,"y":1606},{"x":783,"y":1607},{"x":783,"y":1635},{"x":221,"y":1635}]}]},{"type":0,"text":"其中θ,m为参数且大于零.","pos\_list":[[{"x":217,"y":1780},{"x":624,"y":1779},{"x":624,"y":1807},{"x":218,"y":1809}]],"content\_list":[{"type":1,"prob":98,"string":"其中θ,m为参数且大于零.","option":"","pos":[{"x":217,"y":1780},{"x":624,"y":1779},{"x":624,"y":1807},{"x":218,"y":1809}]}]},{"type":0,"text":"(I)求概率P{T>t}与P{T>s+t|T>s},其中s>0,t>0;","pos\_list":[[{"x":219,"y":1824},{"x":1259,"y":1825},{"x":1259,"y":1866},{"x":219,"y":1865}]],"content\_list":[{"type":1,"prob":96,"string":"(Ⅰ)求概率","option":"","pos":[{"x":219,"y":1830},{"x":409,"y":1830},{"x":409,"y":1859},{"x":219,"y":1859}]},{"type":1,"prob":99,"string":"P{T>t}","option":"","pos":[{"x":409,"y":1827},{"x":565,"y":1827},{"x":565,"y":1864},{"x":409,"y":1864}]},{"type":1,"prob":99,"string":"与","option":"","pos":[{"x":565,"y":1830},{"x":619,"y":1830},{"x":619,"y":1859},{"x":565,"y":1859}]},{"type":1,"prob":98,"string":"P{T>s+t|T>s},","option":"","pos":[{"x":619,"y":1826},{"x":980,"y":1825},{"x":980,"y":1865},{"x":619,"y":1866}]},{"type":1,"prob":99,"string":"其中","option":"","pos":[{"x":980,"y":1831},{"x":1059,"y":1831},{"x":1059,"y":1860},{"x":980,"y":1859}]},{"type":1,"prob":99,"string":"s>0,t>0;","option":"","pos":[{"x":1059,"y":1826},{"x":1259,"y":1826},{"x":1259,"y":1864},{"x":1059,"y":1864}]}]},{"type":0,"text":"(Ⅱ)任取n个这种元件做寿命试验,测得它们的寿命分别为$$t \_ { 1 } , t \_ { 2 } , \\\\cdots , t \_ { n } ,$$若m已知,求θ的最大似然估计值","pos\_list":[[{"x":219,"y":1883},{"x":1521,"y":1882},{"x":1521,"y":1983},{"x":219,"y":1984}]],"content\_list":[{"type":1,"prob":99,"string":"(Ⅱ)任取n个这种元件做寿命试验,测得它们的寿命分别为","option":"","pos":[{"x":220,"y":1883},{"x":1111,"y":1882},{"x":1111,"y":1910},{"x":220,"y":1911}]},{"type":2,"prob":97,"string":"$$t \_ { 1 } , t \_ { 2 } , \\\\cdots , t \_ { n } ,$$","option":"","pos":[{"x":1111,"y":1883},{"x":1300,"y":1883},{"x":1300,"y":1917},{"x":1111,"y":1918}]},{"type":1,"prob":99,"string":"若m已知,求","option":"","pos":[{"x":1300,"y":1882},{"x":1505,"y":1882},{"x":1505,"y":1910},{"x":1300,"y":1910}]},{"type":1,"prob":99,"string":"θ","option":"","pos":[{"x":1505,"y":1882},{"x":1521,"y":1882},{"x":1521,"y":1910},{"x":1505,"y":1910}]},{"type":1,"prob":99,"string":"的最大似然估计值","option":"","pos":[{"x":219,"y":1953},{"x":501,"y":1949},{"x":502,"y":1980},{"x":220,"y":1984}]}]}]}]}],"prism\_version":"1.0.9","prism\_wnum":0,"width":1654}', 'RequestId': '139A8A42-B2DE-5EA1-8F85-EB597FFD973F'}}