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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( \\\\frac { y \_ { 1 } } { 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 } ,$$ a≥b.其中(I)求a,b的值;(Ⅱ)求正交矩阵Q.","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1710},{"x":1654,"y":1710},{"x":1654,"y":2339},{"x":0,"y":2339}]],"pos\_list":[[{"x":190,"y":1710},{"x":1462,"y":1710},{"x":1462,"y":2006},{"x":190,"y":2006}]],"element\_list":[{"type":0,"text":"(20)(本题满分11分)","pos\_list":[[{"x":190,"y":1714},{"x":519,"y":1712},{"x":519,"y":1740},{"x":190,"y":1743}]],"content\_list":[{"type":1,"prob":99,"string":"(20)(本题满分11分)","option":"","pos":[{"x":190,"y":1714},{"x":519,"y":1712},{"x":519,"y":1740},{"x":190,"y":1743}]}]},{"type":0,"text":"设二次型$$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( \\\\frac { y \_ { 1 } } { 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 } ,$$ a≥b.","pos\_list":[[{"x":267,"y":1764},{"x":1441,"y":1761},{"x":1442,"y":1905},{"x":268,"y":1908}]],"content\_list":[{"type":1,"prob":99,"string":"设二次型","option":"","pos":[{"x":267,"y":1791},{"x":410,"y":1790},{"x":410,"y":1822},{"x":267,"y":1822}]},{"type":2,"prob":99,"string":"$$f \\\\left( x \_ { 1 } , x \_ { 2 } \\\\right) = x \_ { 1 } ^ { 2 } - 4 x \_ { 1 } x \_ { 2 } + 4 x \_ { 2 } ^ { 2 }$$","option":"","pos":[{"x":410,"y":1785},{"x":881,"y":1781},{"x":881,"y":1825},{"x":410,"y":1829}]},{"type":1,"prob":99,"string":"经正交变换","option":"","pos":[{"x":881,"y":1789},{"x":1059,"y":1788},{"x":1059,"y":1820},{"x":881,"y":1820}]},{"type":2,"prob":96,"string":"$$\\\\left( \\\\frac { x \_ { 1 } } { x \_ { 2 } } \\\\right) = Q \\\\left( \\\\frac { y \_ { 1 } } { y \_ { 2 } } \\\\right)$$","option":"","pos":[{"x":1062,"y":1762},{"x":1266,"y":1762},{"x":1266,"y":1855},{"x":1062,"y":1855}]},{"type":1,"prob":99,"string":"化为二次型","option":"","pos":[{"x":1274,"y":1791},{"x":1441,"y":1791},{"x":1441,"y":1819},{"x":1274,"y":1819}]},{"type":2,"prob":99,"string":"$$g \\\\left( y \_ { 1 } , y \_ { 2 } \\\\right) = a y \_ { 1 } ^ { 2 } + 4 y \_ { 1 } y \_ { 2 } + b y \_ { 2 } ^ { 2 } ,$$","option":"","pos":[{"x":269,"y":1866},{"x":748,"y":1862},{"x":748,"y":1905},{"x":269,"y":1908}]},{"type":1,"prob":98,"string":"a≥b.","option":"","pos":[{"x":825,"y":1865},{"x":927,"y":1865},{"x":927,"y":1903},{"x":825,"y":1903}]}]},{"type":0,"text":"其中(I)求a,b的值;","pos\_list":[[{"x":268,"y":1871},{"x":825,"y":1868},{"x":826,"y":1945},{"x":268,"y":1949}]],"content\_list":[{"type":1,"prob":99,"string":"其中","option":"","pos":[{"x":748,"y":1868},{"x":825,"y":1868},{"x":825,"y":1898},{"x":748,"y":1898}]},{"type":1,"prob":96,"string":"(I)求a,b的值;","option":"","pos":[{"x":268,"y":1921},{"x":534,"y":1919},{"x":534,"y":1947},{"x":268,"y":1949}]}]},{"type":0,"text":"(Ⅱ)求正交矩阵Q.","pos\_list":[[{"x":270,"y":1968},{"x":560,"y":1967},{"x":560,"y":1996},{"x":270,"y":1997}]],"content\_list":[{"type":1,"prob":99,"string":"(Ⅱ)求正交矩阵Q.","option":"","pos":[{"x":270,"y":1968},{"x":560,"y":1967},{"x":560,"y":1996},{"x":270,"y":1997}]}]}]}]}],"prism\_version":"1.0.9","prism\_wnum":0,"width":1654}', 'RequestId': '80CF2478-9F94-5FA7-B44D-D13C2E81E120'}}