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=的一个特征向量.(I)试确定参数a,b及特征向量ξ所对应的特征值;","figure\_list":[],"table\_list":[[{"x":301,"y":2053},{"x":394,"y":2053},{"x":394,"y":2188},{"x":301,"y":2188}]],"answer\_list":[[{"x":0,"y":1927},{"x":1654,"y":1927},{"x":1654,"y":2339},{"x":0,"y":2339}]],"pos\_list":[[{"x":74,"y":1927},{"x":1572,"y":1927},{"x":1572,"y":2252},{"x":74,"y":2252}]],"element\_list":[{"type":0,"text":"(1)设B是秩为2的5x4矩阵,$$\\\\alpha \_ { 1 } = \\\\left( 1 , 1 , 2 , 3 \\\\right) ^ { T } , a \_ { 2 } = \\\\left( - 1 , 1 , 4 , - 1 \\\\right) ^ { T } , \\\\alpha \_ { 3 } = \\\\left( 5 , - 1 , - 8 , 9 \\\\right)$$是齐次线性方程组Bx=0的解向量,求Bx=0的解空间的一个标准正交基.","pos\_list":[[{"x":78,"y":1935},{"x":1572,"y":1938},{"x":1572,"y":2035},{"x":78,"y":2032}]],"content\_list":[{"type":1,"prob":98,"string":"(1)设B是秩为2的5x4矩阵,","option":"","pos":[{"x":78,"y":1947},{"x":580,"y":1946},{"x":580,"y":1977},{"x":78,"y":1979}]},{"type":2,"prob":98,"string":"$$\\\\alpha \_ { 1 } = \\\\left( 1 , 1 , 2 , 3 \\\\right) ^ { T } , a \_ { 2 } = \\\\left( - 1 , 1 , 4 , - 1 \\\\right) ^ { T } , \\\\alpha \_ { 3 } = \\\\left( 5 , - 1 , - 8 , 9 \\\\right)$$","option":"","pos":[{"x":580,"y":1942},{"x":1572,"y":1938},{"x":1572,"y":1982},{"x":580,"y":1987}]},{"type":1,"prob":99,"string":"是齐次线性方程组","option":"","pos":[{"x":144,"y":1997},{"x":439,"y":1997},{"x":439,"y":2028},{"x":144,"y":2028}]},{"type":1,"prob":99,"string":"Bx=0","option":"","pos":[{"x":439,"y":1995},{"x":552,"y":1996},{"x":552,"y":2033},{"x":438,"y":2033}]},{"type":1,"prob":99,"string":"的解向量,求","option":"","pos":[{"x":552,"y":1998},{"x":765,"y":1998},{"x":765,"y":2029},{"x":552,"y":2028}]},{"type":1,"prob":99,"string":"Bx=0","option":"","pos":[{"x":765,"y":1995},{"x":881,"y":1995},{"x":881,"y":2033},{"x":765,"y":2033}]},{"type":1,"prob":99,"string":"的解空间的一个标准正交基.","option":"","pos":[{"x":881,"y":1998},{"x":1322,"y":1999},{"x":1322,"y":2030},{"x":881,"y":2029}]}]},{"type":0,"text":"(2)已知ξ=ξ=是矩阵A 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