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\_ { 1 } , X \_ { 2 } , \\\\cdots , X \_ { n }$$是来自总体X 的简单随机样本,已知$$E \\\\left( X ^ { k } \\\\right) = a \_ { k } \\\\left( k = 1 , 2 , 3 , 4 \\\\right) ,$$证明:当n充分大时,随机变量$$Z \_ { n } = \\\\frac { 1 } { n } \\\\sum \_ { i = 1 } ^ { n } X \_ { i } ^ { 2 }$$X近似服从正态分布,并指出其分布参数.","figure\_list":[],"table\_list":[],"answer\_list":[[{"x":0,"y":1499},{"x":1353,"y":1499},{"x":1353,"y":2006},{"x":0,"y":2006}]],"pos\_list":[[{"x":121,"y":1499},{"x":1291,"y":1499},{"x":1291,"y":1663},{"x":121,"y":1663}]],"element\_list":[{"type":0,"text":"十三、(本题满分6分)","pos\_list":[[{"x":121,"y":1500},{"x":395,"y":1500},{"x":395,"y":1524},{"x":121,"y":1524}]],"content\_list":[{"type":1,"prob":99,"string":"十三、(本题满分6分)","option":"","pos":[{"x":121,"y":1500},{"x":395,"y":1500},{"x":395,"y":1524},{"x":121,"y":1524}]}]},{"type":0,"text":"假设$$X \_ { 1 } , X \_ { 2 } , \\\\cdots , X \_ { n }$$是来自总体X 的简单随机样本,已知$$E \\\\left( X ^ { k } \\\\right) = a \_ { k } \\\\left( k = 1 , 2 , 3 , 4 \\\\right) ,$$证明:当n充分大时,随机变量$$Z \_ { n 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