Two rods A and B of identical dimensions are at temperature 30°C. If A is heated upto 180°C and B upto T°C, then the new lengths are the same. If the ratio of the coefficients of linear expansion of A and B is 4 : 3, then the value of T is JEE MAIN 2019

▲ 200°C		
B 270°C		
© 230°C		
250°C		

biven, XA = Y The 3 AT = 180-307 For 150°C 5T = T - 30 7 (T-30)C A.T.D. DL = DLB 7 Log STg = Log STg (where 'I' is the) original length of rods) 7 x = T-30 ×B 150 7 4 = 7-30 3 150 = 1 T = 230c