

Homework 13

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EX 6

a $3, 1, 4 \rightarrow \frac{1}{3}, 1, \frac{1}{4}, \lambda_c = 1, K \leq \frac{1}{3}.$

b $3, 1, 4 \rightarrow -\frac{1}{2}, -\frac{1}{4}, -1, \lambda_c = 4, K \leq \frac{1}{2}.$

c $3, 1, -4 \rightarrow \frac{1}{3}, 1, -\frac{1}{4}, \lambda_c = 1, K \leq \frac{1}{3}.$

d $-1, 2, 4 \rightarrow -1, \frac{1}{2}, \frac{1}{4}, \lambda_c = -1, K \leq \frac{1}{2}.$

e $-1, 2, 4 \rightarrow -\frac{1}{2}, 1, \frac{1}{3}, \lambda_c = 2, K \leq \frac{1}{2}.$

f $1, 9, 10 \rightarrow -\frac{1}{5}, \frac{1}{3}, \frac{1}{4}, \lambda_c = 9, K \leq \frac{3}{4}.$

g $1, 9, 10 \rightarrow -\frac{1}{7}, 1, \frac{1}{2}, \lambda_c = 9, K \leq \frac{1}{2}.$

CP 2

a $\lambda_c = 0.99999715098363, K = 0.24999928775265.$

b $\lambda_c = 4.00000381470212, K = 0.24999904630143.$

c $\lambda_c = 1.00000357628124, K = 0.25000089407999.$

d $\lambda_c = -1.00146913843225, K = 0.49951801292794.$

e $\lambda_c = 1.99997459704563, K = 0.33332486569483.$

f $\lambda_c = 8.95590239564946, K = 0.73897559891240.$

g $\lambda_c = 8.99926704129000, K = 0.49963352064595.$

CP 4

a $\lambda_c = 1.00000000000000.$

b $\lambda_c = 3.00000000000001.$

c $\lambda_c = 2.00000000000000.$

d $\lambda_c = 10.00000000000000.$ Much better.