



7.4 Generalized Additive Models and  
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7.4 Review Questions

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### 7.4.R1

1/1 point (graded)

True or False: In the GAM  $y \sim f_1(X_1) + f_2(X_2) + e$ , as we make  $f_1$  and  $f_2$  more and more complex we can approximate any regression function to arbitrary precision.

☐ True

☒ False



### Explanation

If there is an interaction between  $X_1$  and  $X_2$ , a purely additive model can never capture it.

Submit

**i** Answers are displayed within the problem