In-class exercise 14

Consider the data (1,0.5), (2,2.5), (3,2), (4,4), (5,3.5), (6,6), (7,5.5). Consider a model of the form:

$$y = a_1 + a_2 x + a_3 \cos(\pi x)$$

Find the coefficients $a_{\rm 1}$, $a_{\rm 2}$, $a_{\rm 3}$ that would give the best fit to the data.