$$\begin{bmatrix}
1 & 3 & 9 & 2 & 9 \\
1 & 4 & 18 & 84 \\
1 & 5 & 25 & 126 \\
1 & 7 & 19 & 343 \\
1 & 8 & 64 & 512 \\
1 & 9 & 81 & 729 \\
1 & 11 & 121 & 1331 \\
1 & 12 & 144 & 1778
\end{bmatrix}$$

$$\begin{bmatrix}
1.6 \\
3.6 \\
4.4 \\
2.2 \\
2.8 \\
3.8 \\
4.6
\end{bmatrix}$$

$$a_0 = -11.4887$$
 $a_1 = 7.1438$ 
 $a_2 = -1.0417$ 
 $a_3 = 0.0467$ 

$$5r = \sum_{i=1}^{8} (y_i - a_6 - a_i x_i - ... a_m x_i^m)^2$$
  
= 1,299>

$$59/x = \sqrt{\frac{5}{8-(3+1)}} = 0.570031$$