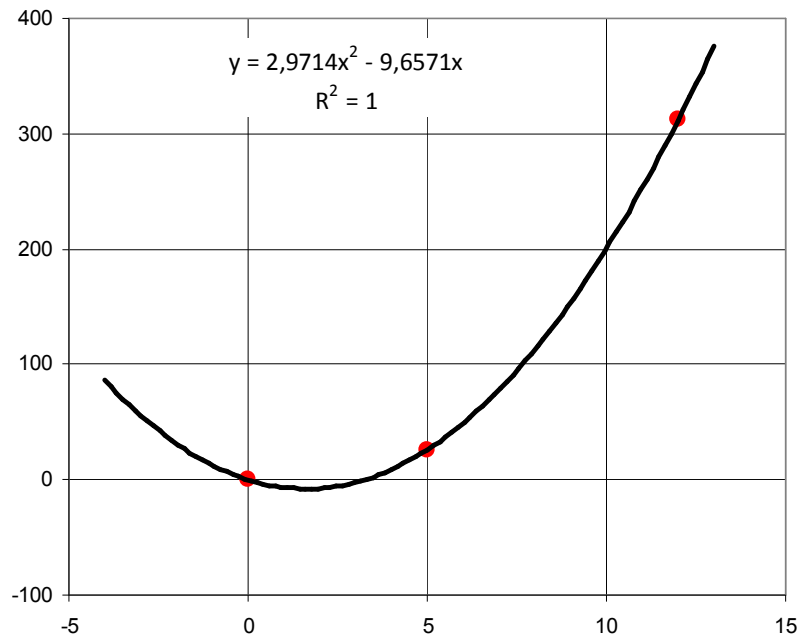


I have three known points (0,0) (5,26) (12,312). How do I find the curve from 0 to 312?

Solution: To find the equation of interpolation polynome we can use MS Excel. We will plot the line as a point diagram and select "Add the trend line". The type of the trend should be chosen as "Polynomial", and options of displaying the equation and reliability of approximation on the diagram should be enabled.

Then we will obtain such graph:



As you see, equation of the interpolation polynome is $y = 2.9714 \cdot x^2 - 9.6571 \cdot x$.

Reliability of approximation $R^2 = 1$, it means that shown relationship fully matches the values of initial points.