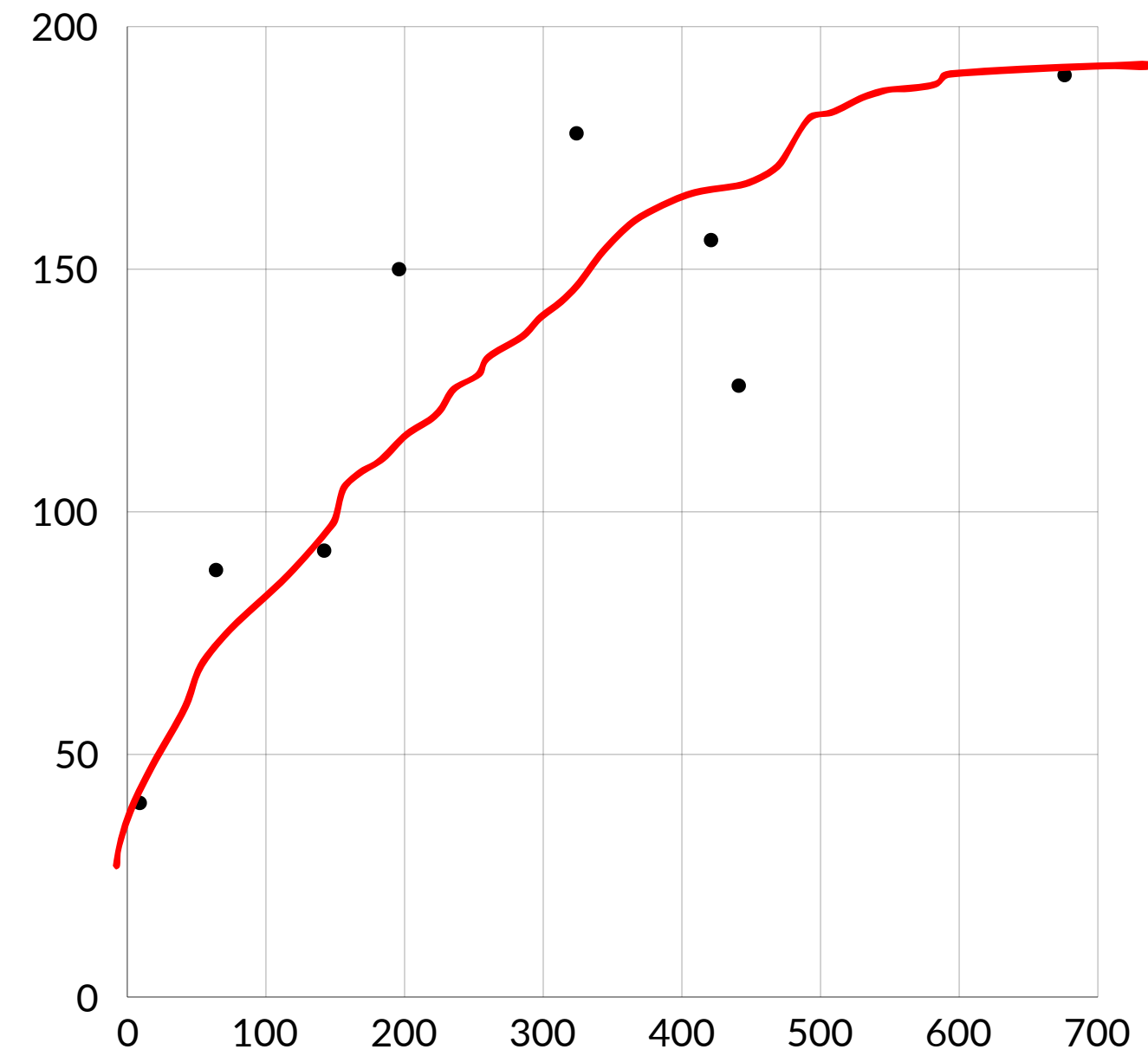
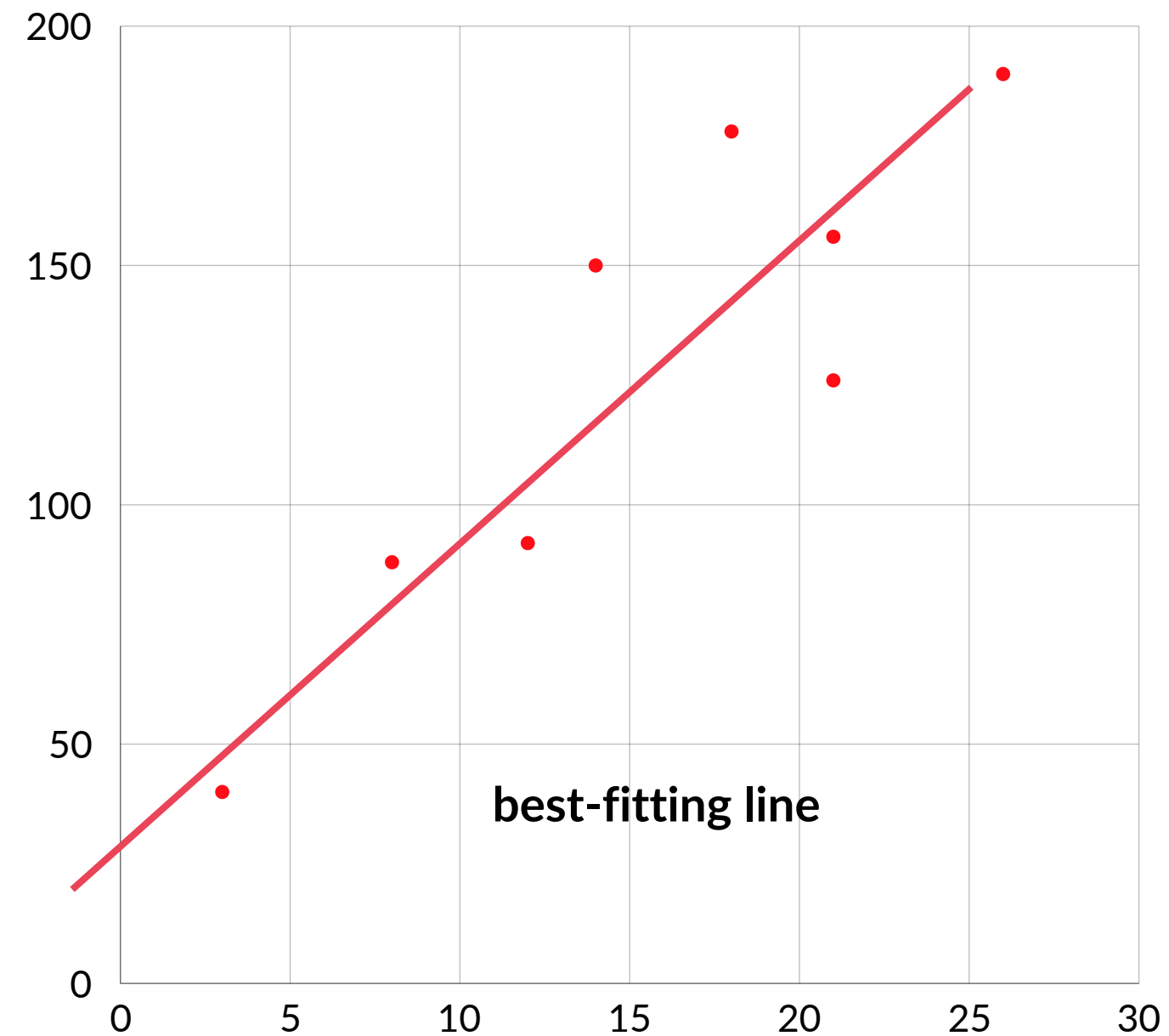


# **Polynomial Regression**

# Polynomial Linear Regression



វិទ្យាស្ថានសាន់រ៉ាស៊ីស  
SUNRISE INSTITUTE



$$y = \beta_0 + \beta_1 x + \beta_2 x^2 + \beta_3 x^3 + \dots + \beta_p x^p + \epsilon$$

# Polynomial Linear Regression



វិទ្យាស្ថានសាន់រ៉ាស៊ី  
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Degree 1:  $y = \beta_0 + \beta_1 x + \epsilon$

Degree 2:  $y = \beta_0 + \beta_1 x + \beta_2 x^2 + \epsilon$

Degree 3:  $y = \beta_0 + \beta_1 x + \beta_2 x^2 + \beta_3 x^3 + \epsilon$

Degree 4:  $y = \beta_0 + \beta_1 x + \beta_2 x^2 + \beta_3 x^3 + \beta_4 x^4 + \epsilon$

Degree n:  $y = \beta_0 + \beta_1 x + \beta_2 x^2 + \beta_3 x^3 + \dots + \beta_n x^n + \epsilon$