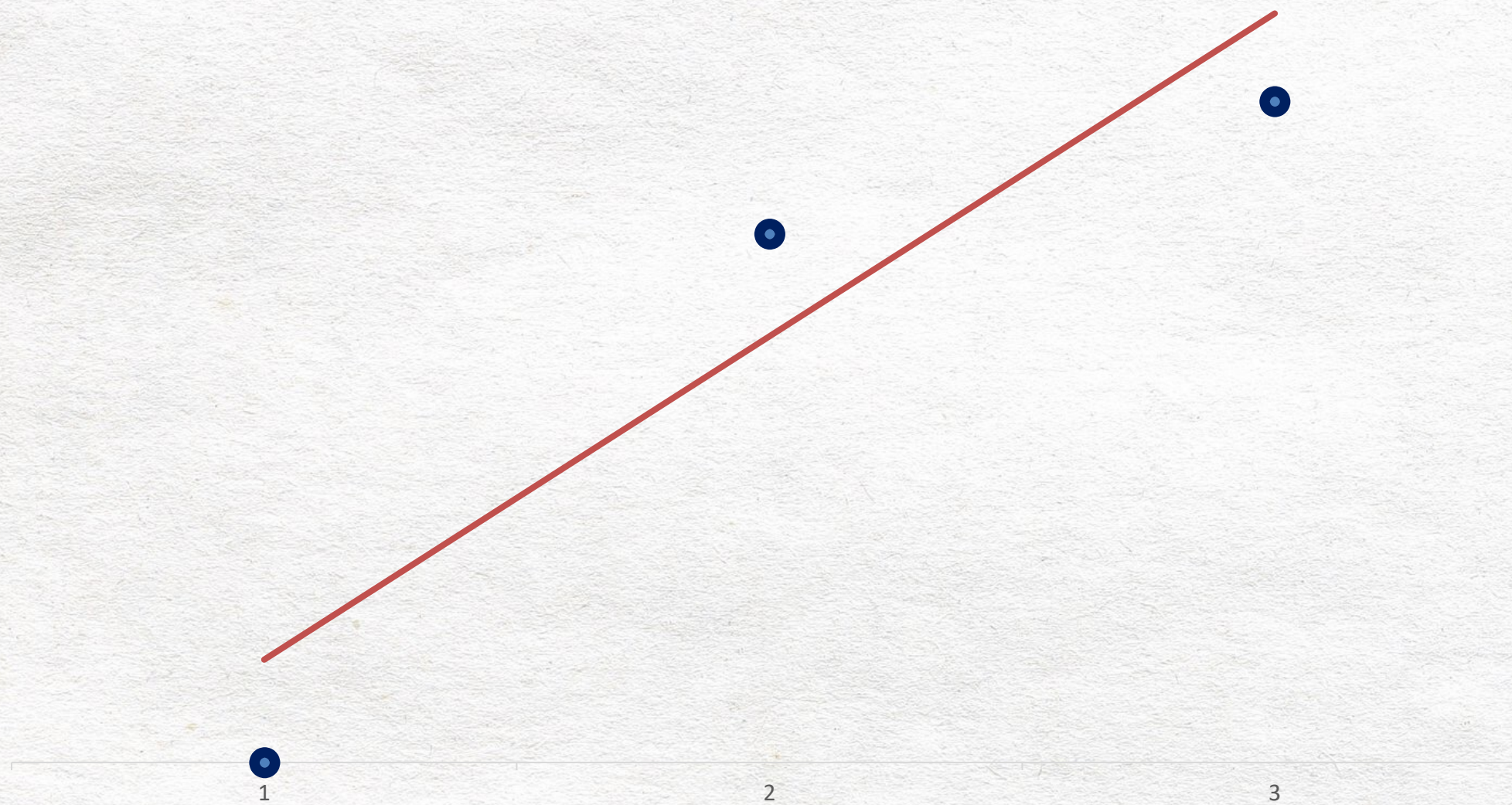


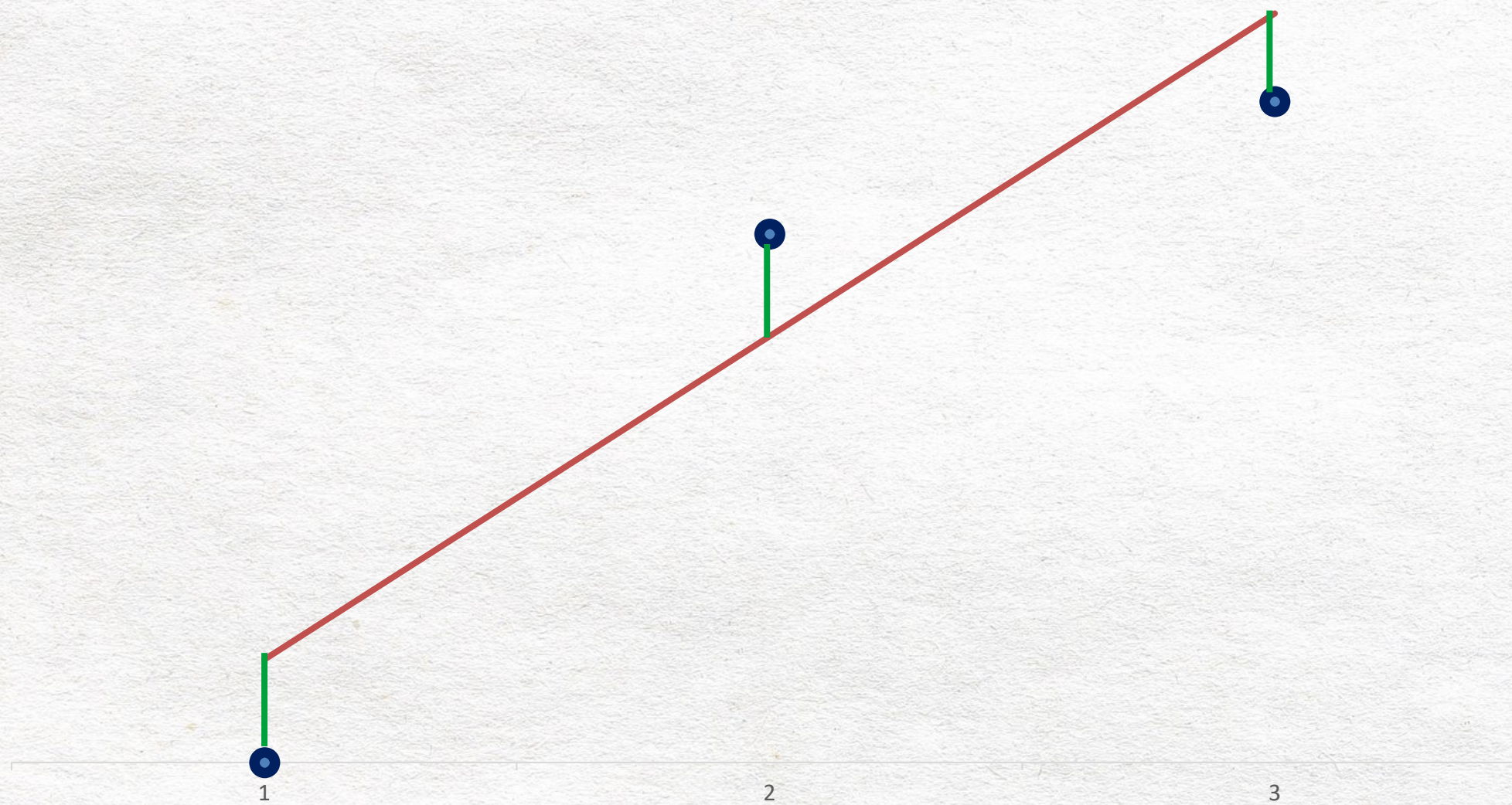
AVALIANDO O ERRO NA REGRESSÃO

Como definir a melhor reta que se ajusta aos dados?



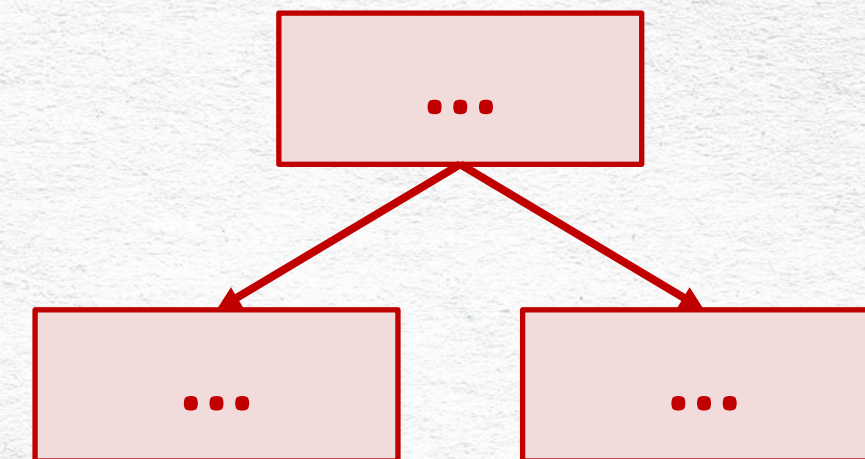
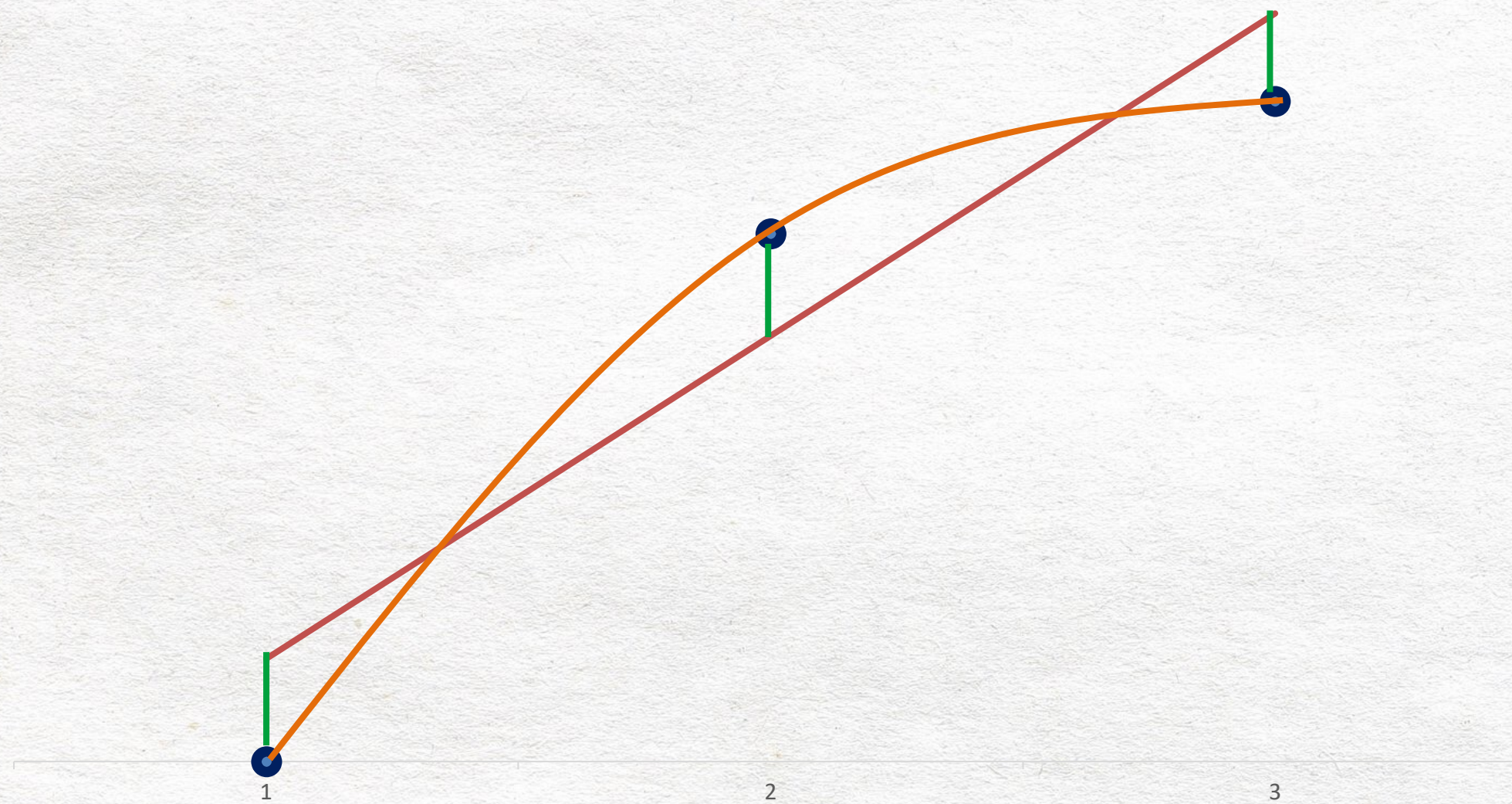
AVALIANDO O ERRO NA REGRESSÃO

Como definir a melhor reta que se ajusta aos dados?

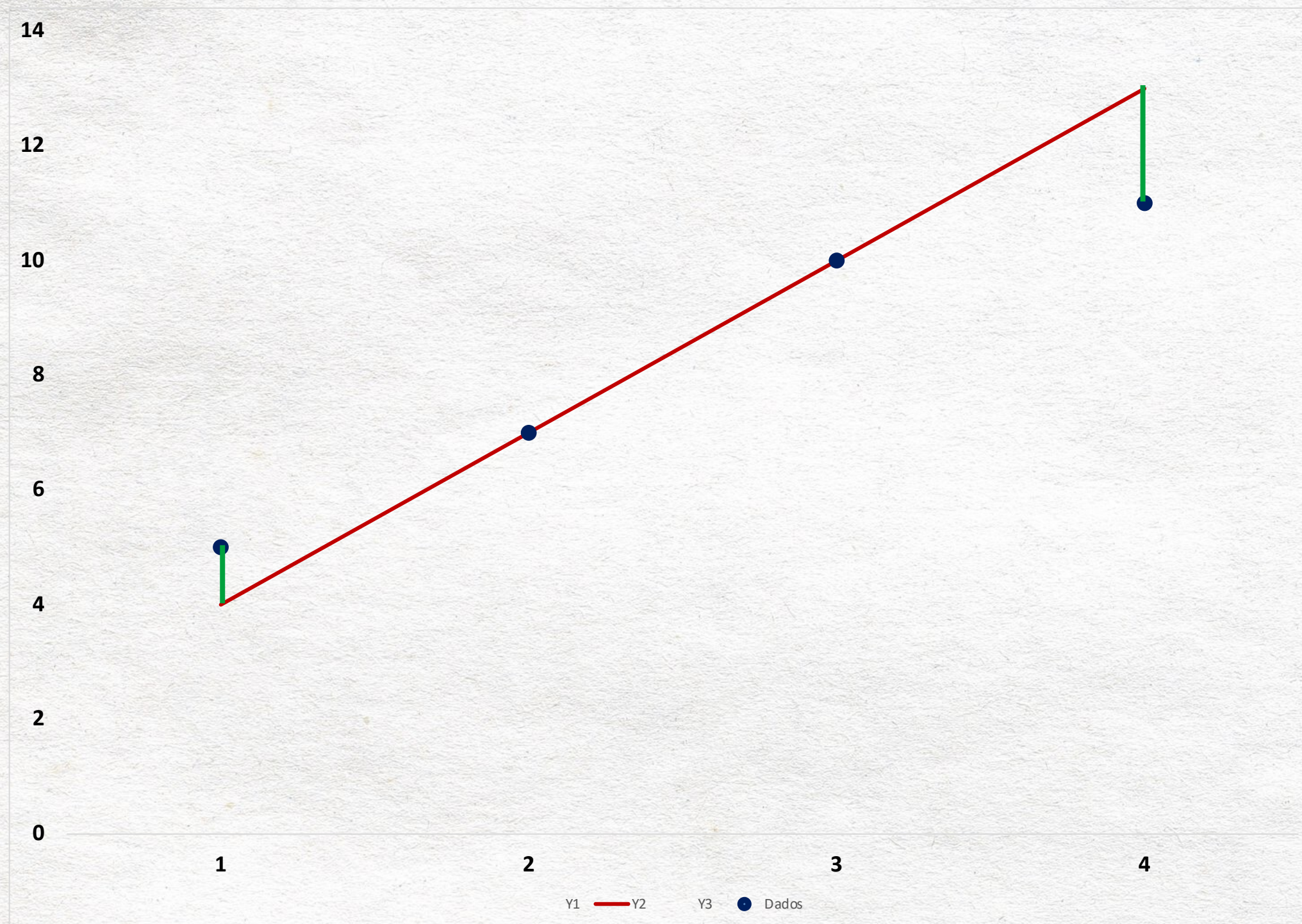


AVALIANDO O ERRO NA REGRESSÃO

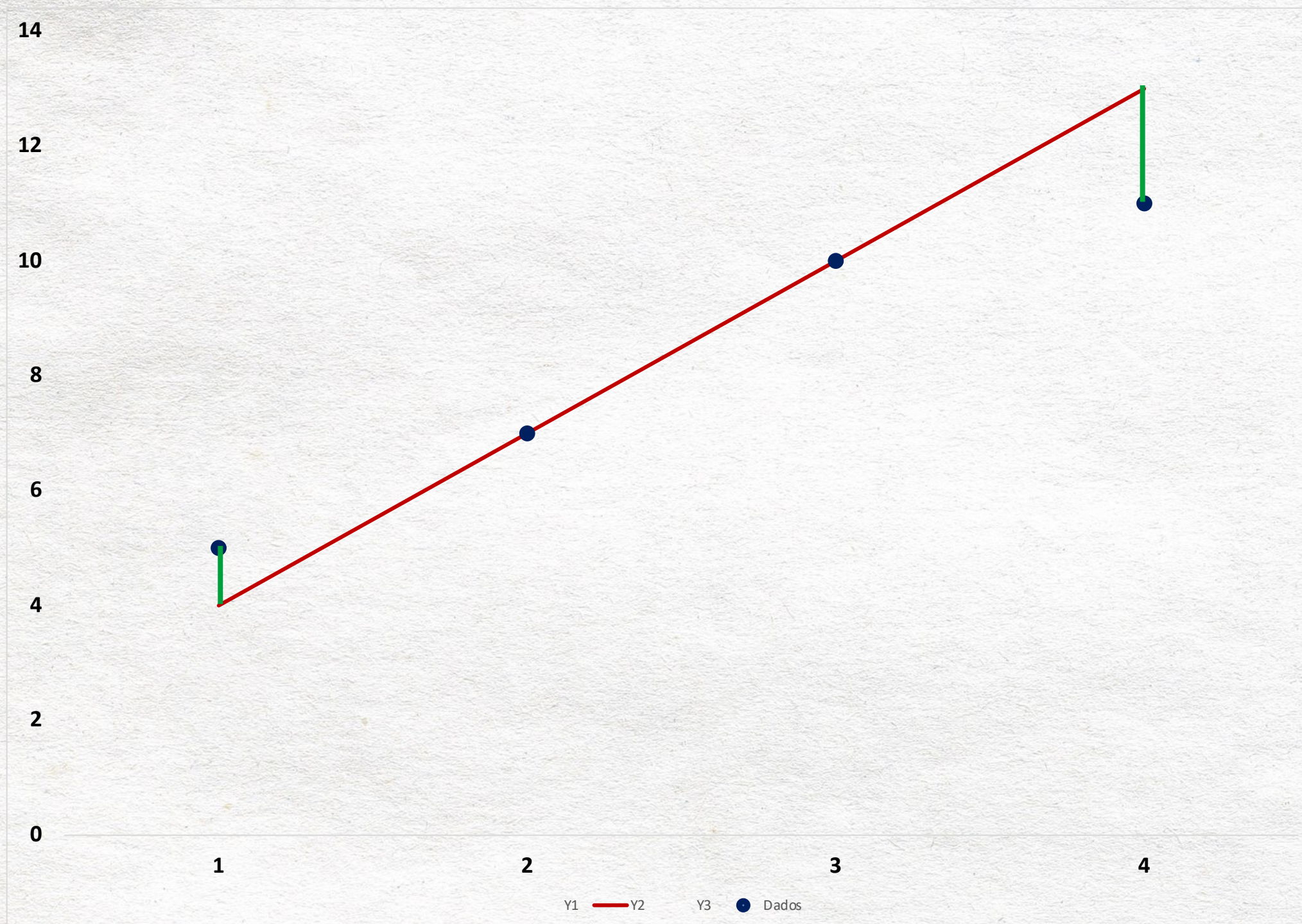
Como definir **o melhor algoritmo** que se ajusta aos dados?



AVALIANDO O ERRO NA REGRESSÃO



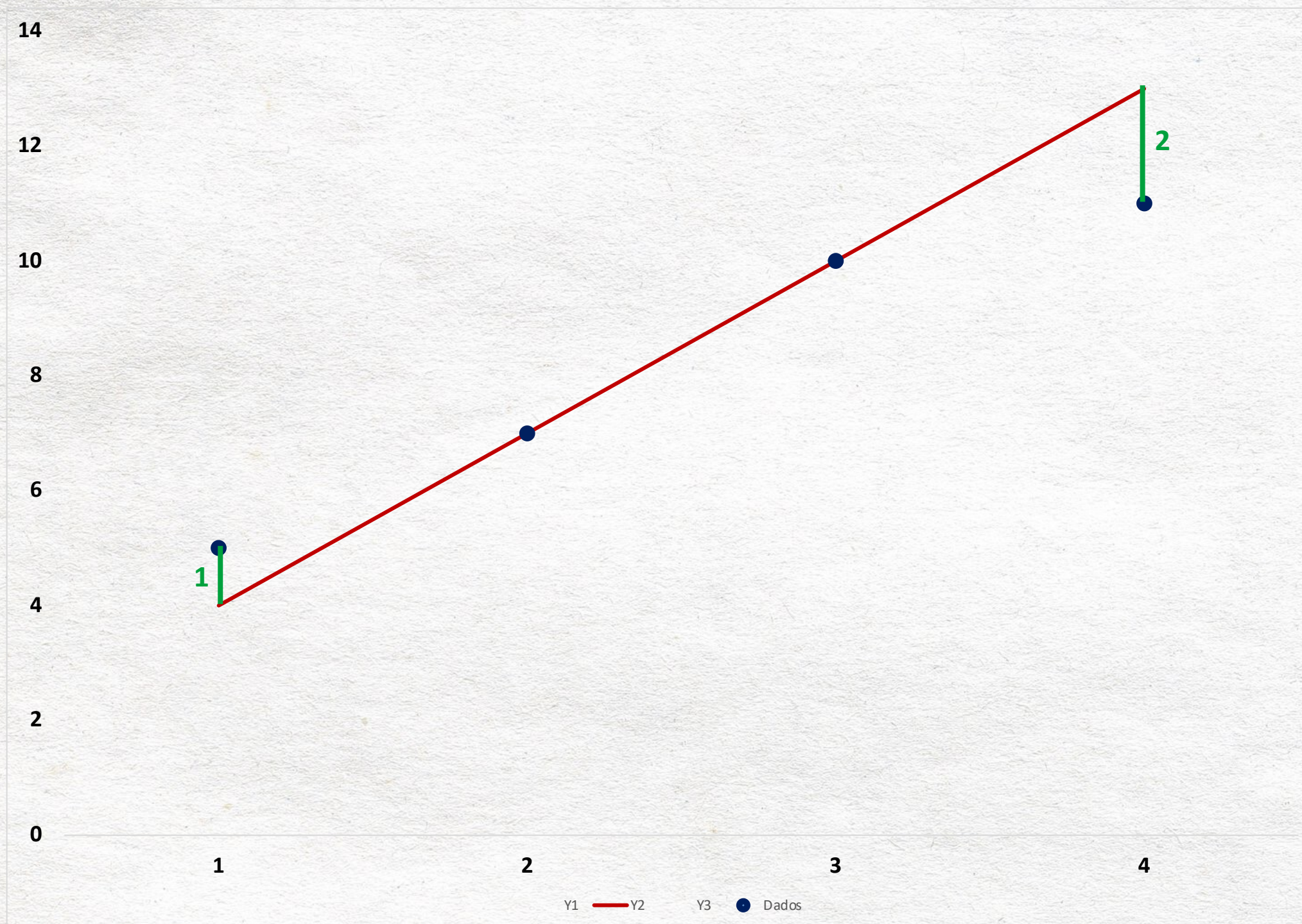
AVALIANDO O ERRO NA REGRESSÃO



*Erro Médio Absoluto
(Mean Absolute Error):*

$$EMA = \frac{1}{n} \sum |\hat{y} - y|$$

AVALIANDO O ERRO NA REGRESSÃO

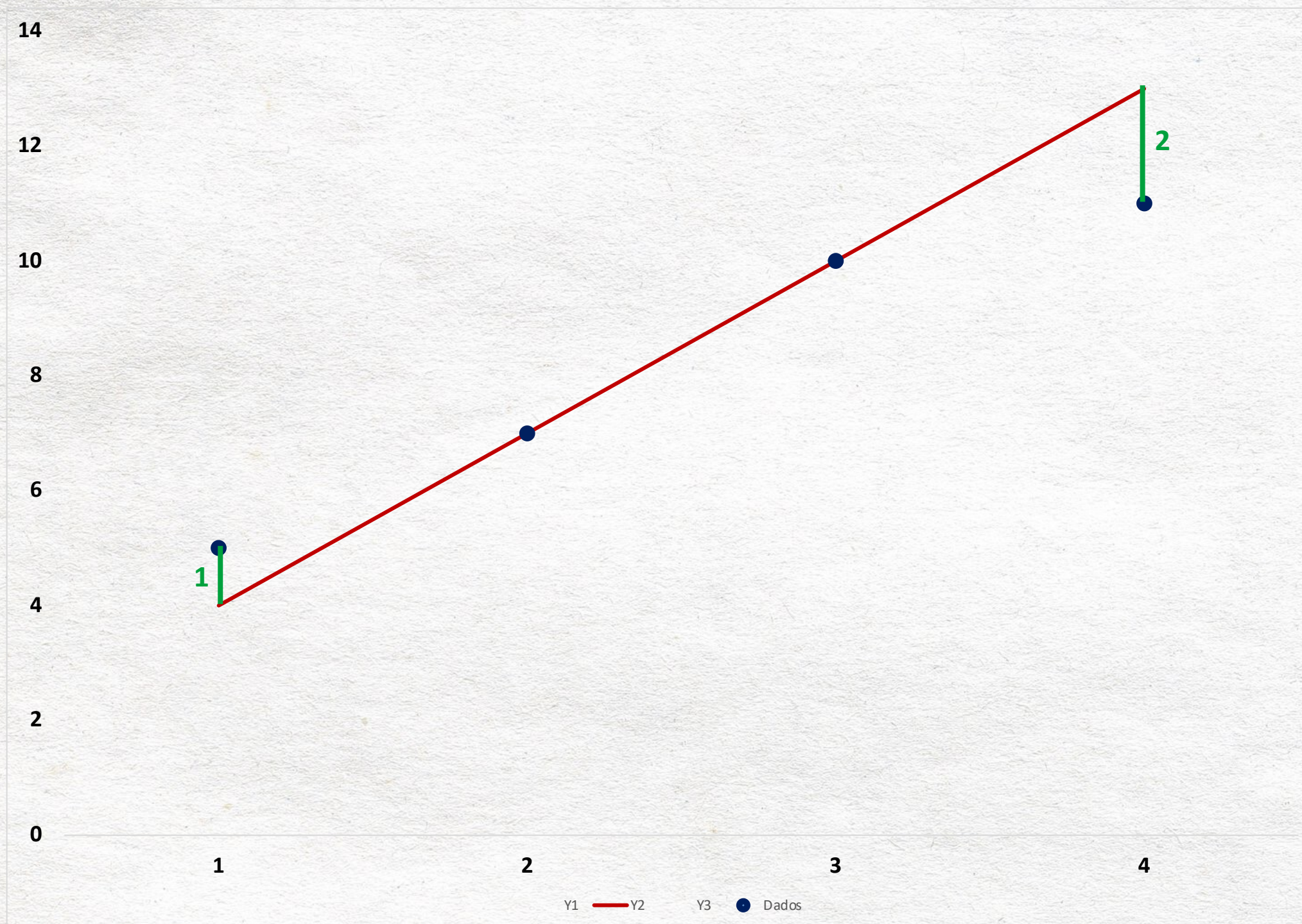


Erro Médio Absoluto
(Mean Absolute Error):

$$EMA = \frac{1}{n} \sum |\hat{y} - y|$$

$$EMA = \frac{1}{4} (1 + 0 + 0 + 2) = 0,75$$

AVALIANDO O ERRO NA REGRESSÃO



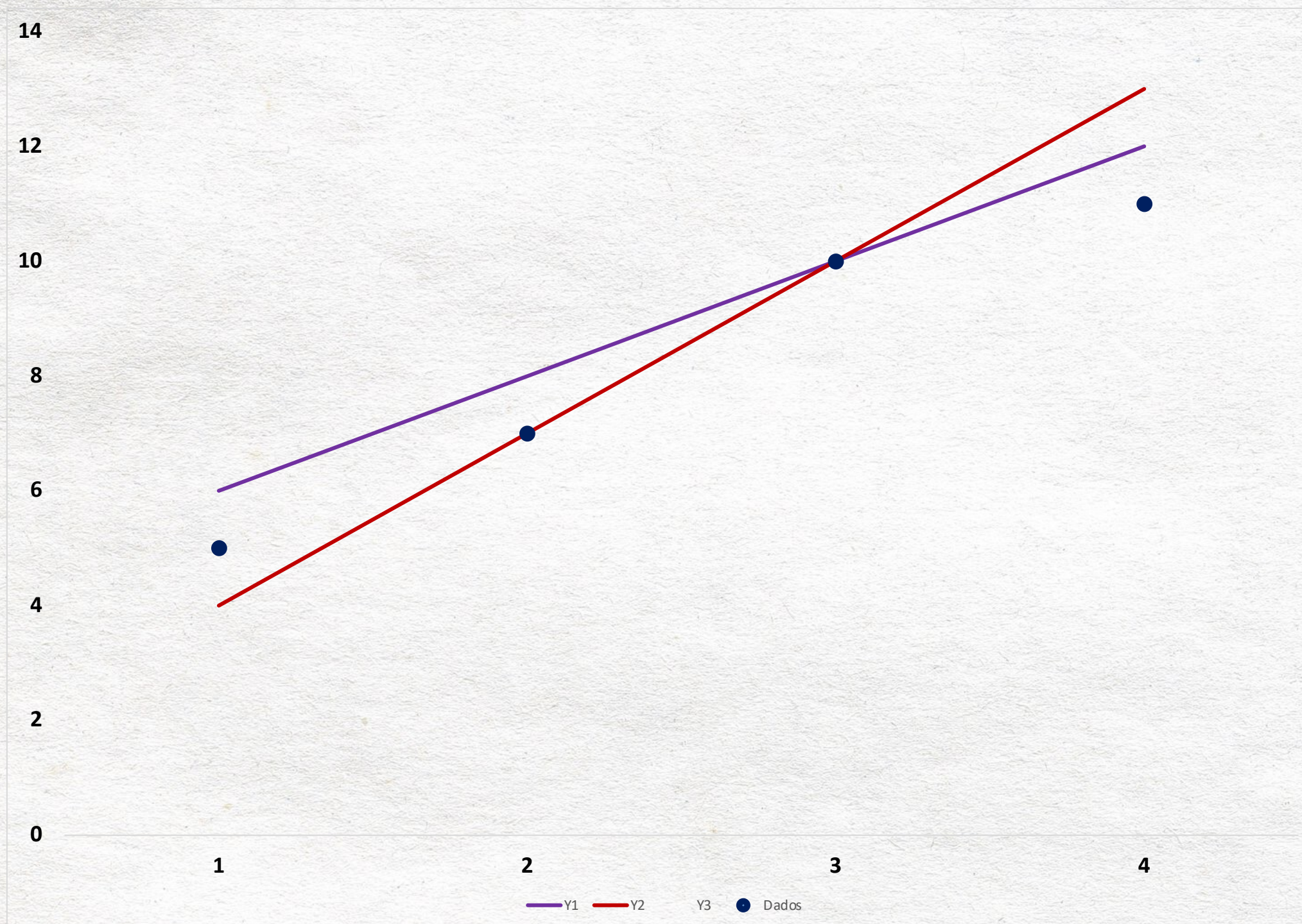
Erro Médio Absoluto
(Mean Absolute Error):

$$EMA = \frac{1}{n} \sum |\hat{y} - y|$$

$$EMA = \frac{1}{4} (1 + 0 + 0 + 2) = 0,75$$

?

AVALIANDO O ERRO NA REGRESSÃO



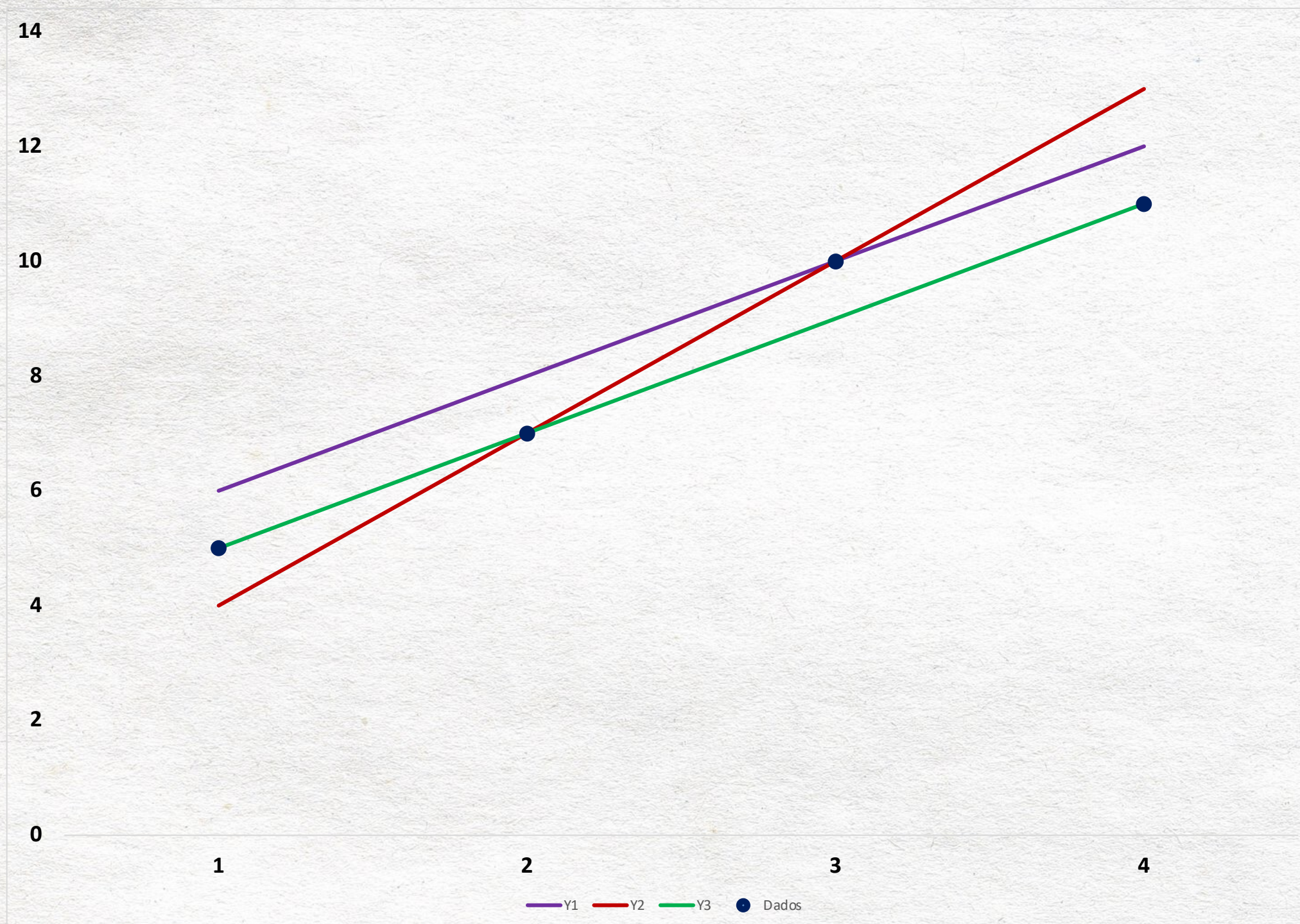
Erro Médio Absoluto
(Mean Absolute Error):

$$EMA = \frac{1}{n} \sum |\hat{y} - y|$$

$$EMA = \frac{1}{4} (1 + 0 + 0 + 2) = 0,75$$

$$EMA = \frac{1}{4} (1 + 1 + 0 + 1) = 0,75$$

AVALIANDO O ERRO NA REGRESSÃO



Erro Médio Absoluto
(Mean Absolute Error):

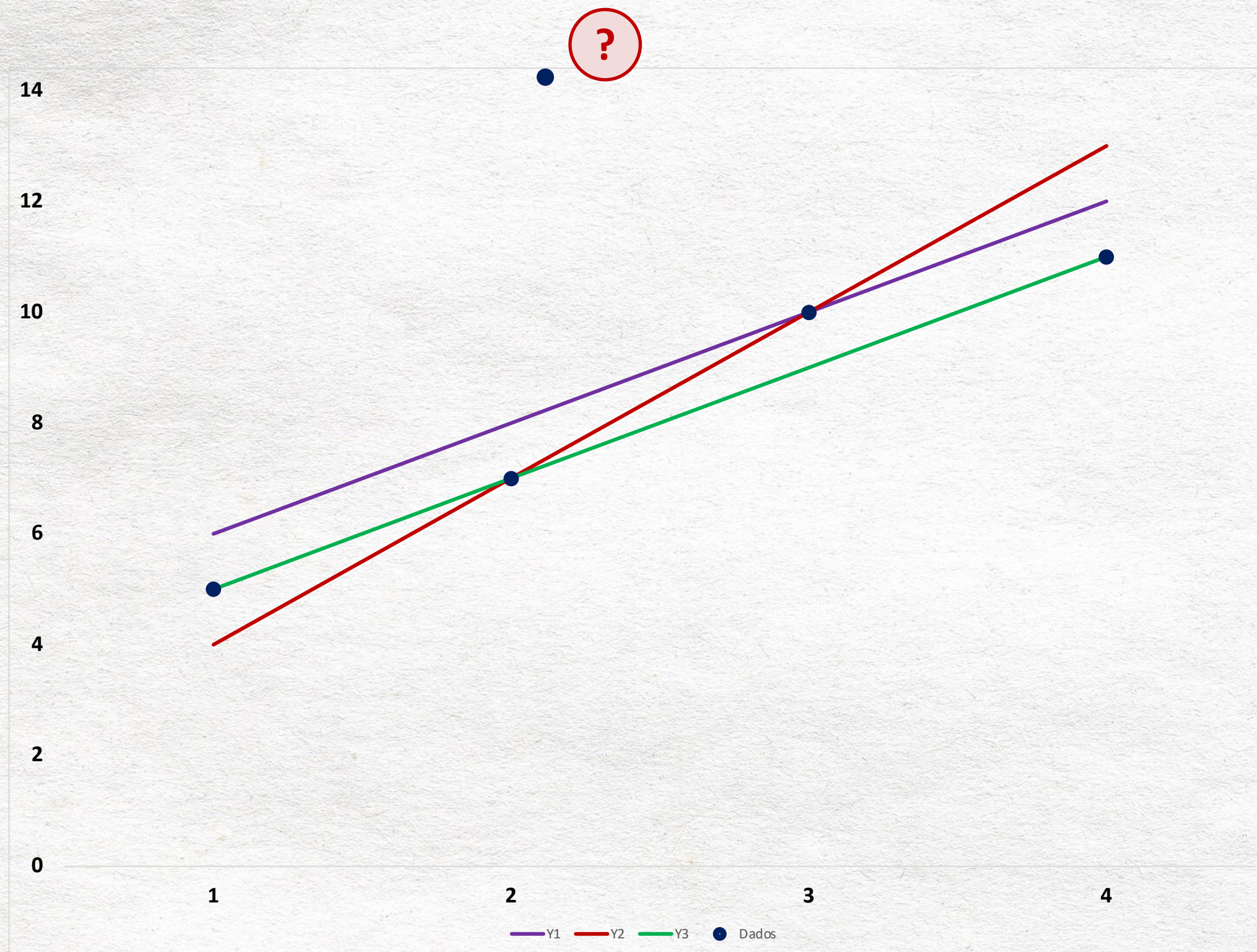
$$EMA = \frac{1}{n} \sum |\hat{y} - y|$$

$$EMA = \frac{1}{4} (1 + 0 + 0 + 2) = 0,75$$

$$EMA = \frac{1}{4} (1 + 1 + 0 + 1) = 0,75$$

$$EMA = \frac{1}{4} (0 + 0 + 1 + 0) = 0,25$$

AVALIANDO O ERRO NA REGRESSÃO



Erro Médio Absoluto
(Mean Absolute Error):

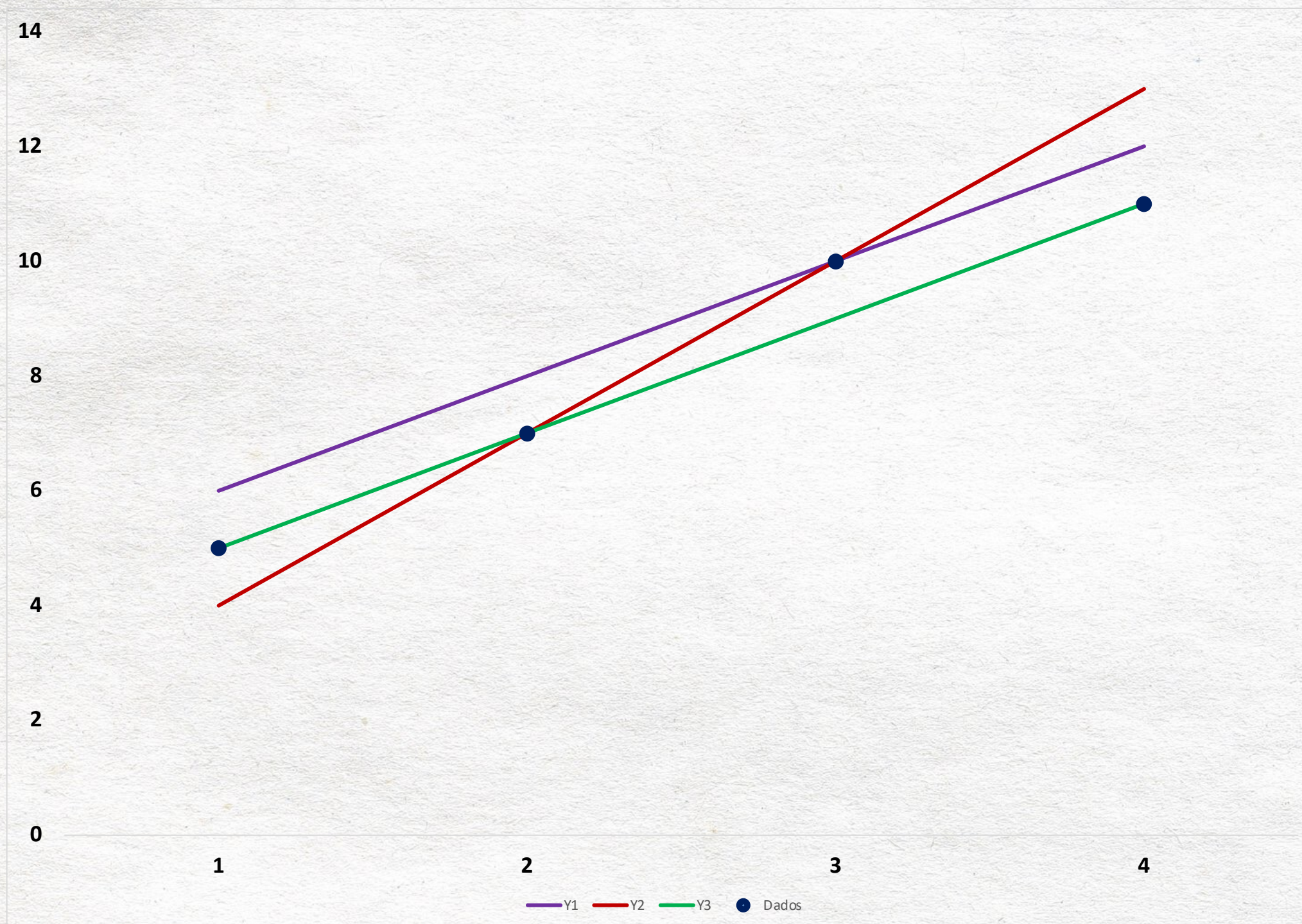
$$EMA = \frac{1}{n} \sum |\hat{y} - y|$$

$$EMA = \frac{1}{4} (1 + 0 + 0 + 2) = 0,75$$

$$EMA = \frac{1}{4} (1 + 1 + 0 + 1) = 0,75$$

$$EMA = \frac{1}{4} (0 + 0 + 1 + 0) = 0,25$$

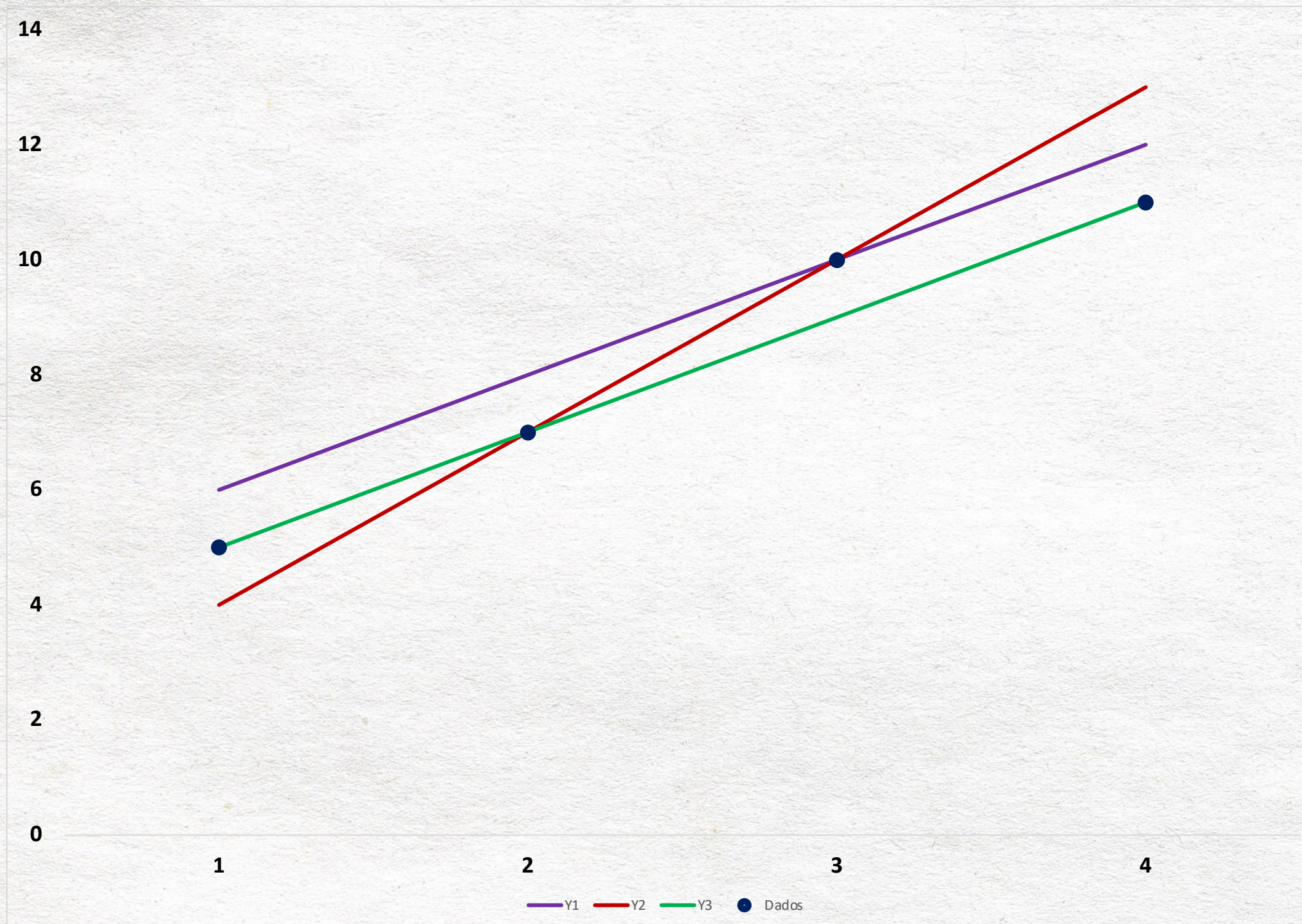
AVALIANDO O ERRO NA REGRESSÃO



*Erro Quadrático Médio
(Mean Squared Error):*

$$EQM = \frac{1}{n} \sum (\hat{y} - y)^2$$

AVALIANDO O ERRO NA REGRESSÃO



*Erro Quadrático Médio
(Mean Squared Error):*

$$EQM = \frac{1}{n} \sum (\hat{y} - y)^2$$

$$EQM = \frac{1}{4} (1^2 + 0^2 + 0^2 + 2^2) = 1,25$$

$$EQM = \frac{1}{4} (1^2 + 1^2 + 0^2 + 1^2) = 0,75$$

$$EQM = \frac{1}{4} (0^2 + 0^2 + 1^2 + 0^2) = 0,25$$