Example

Consider oil usage (litre/household) denoted y, given temperature (°C) denoted x

-5

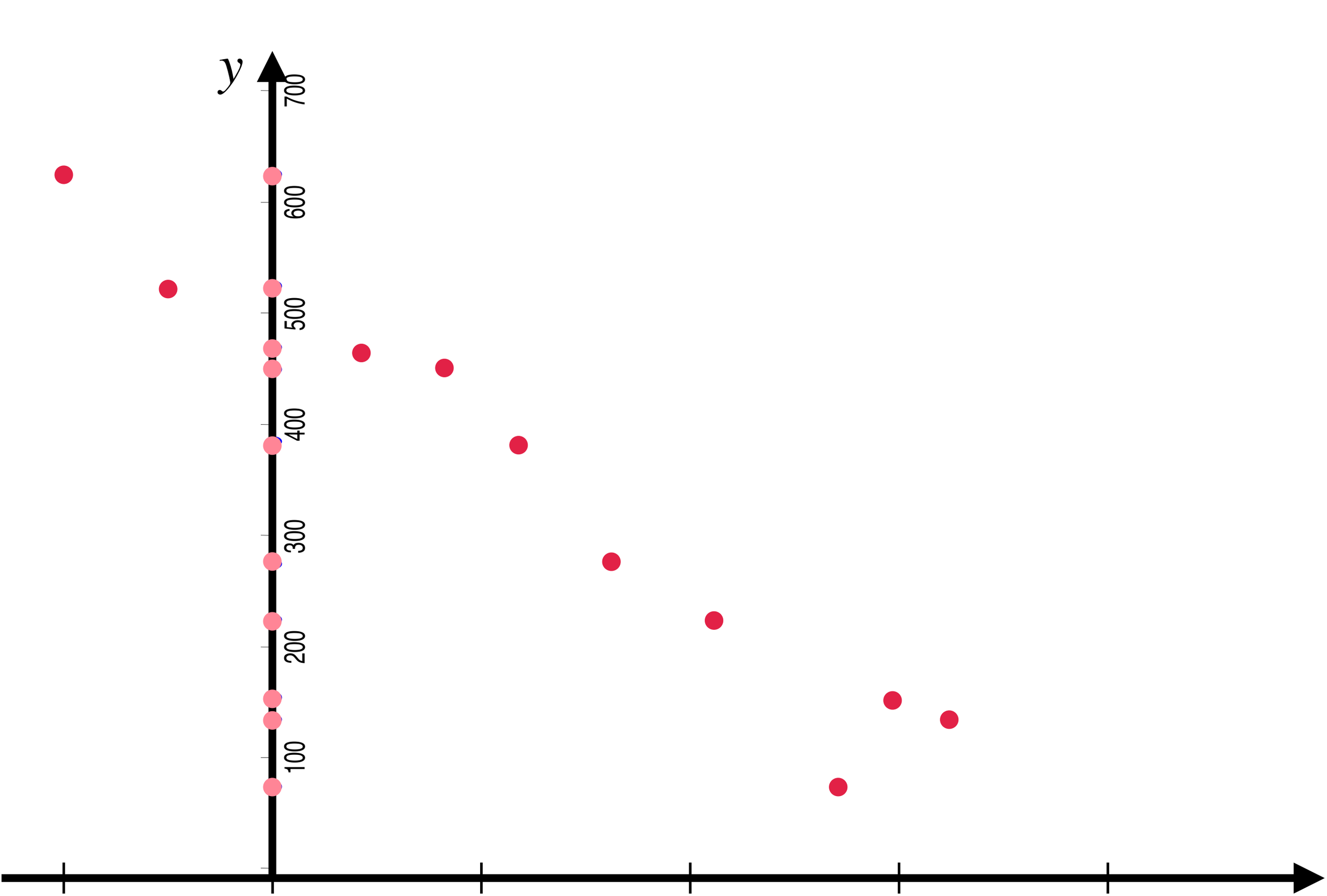
5

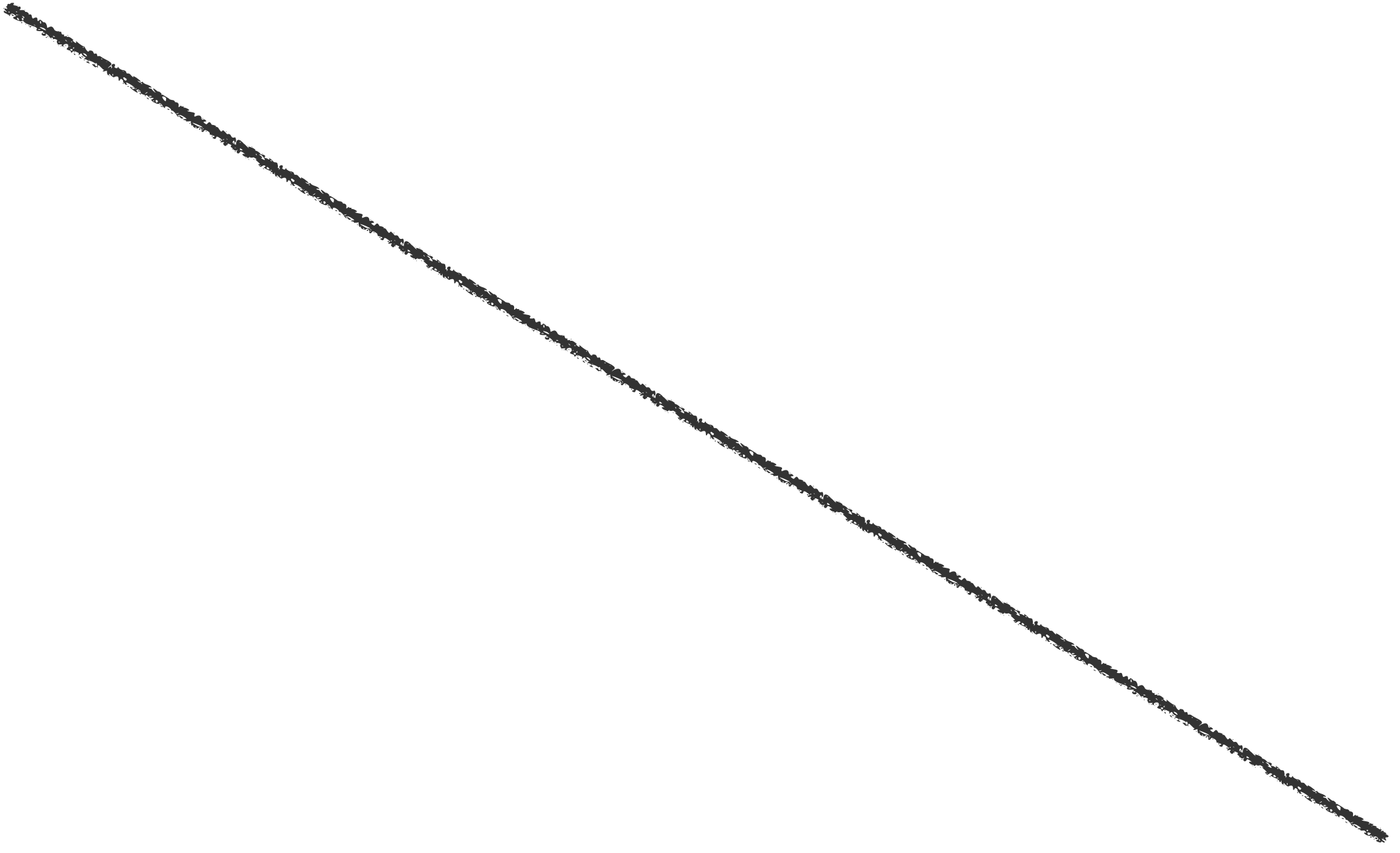
0

10

15

20


y
700
600
500
400
300
200
100



answer: conditional averages $E(y \mid x)$

instead of finding the average using **marginal distribution**

we use **conditional distributions**

How?

what is our best guess if we know x*?*

How?

Example

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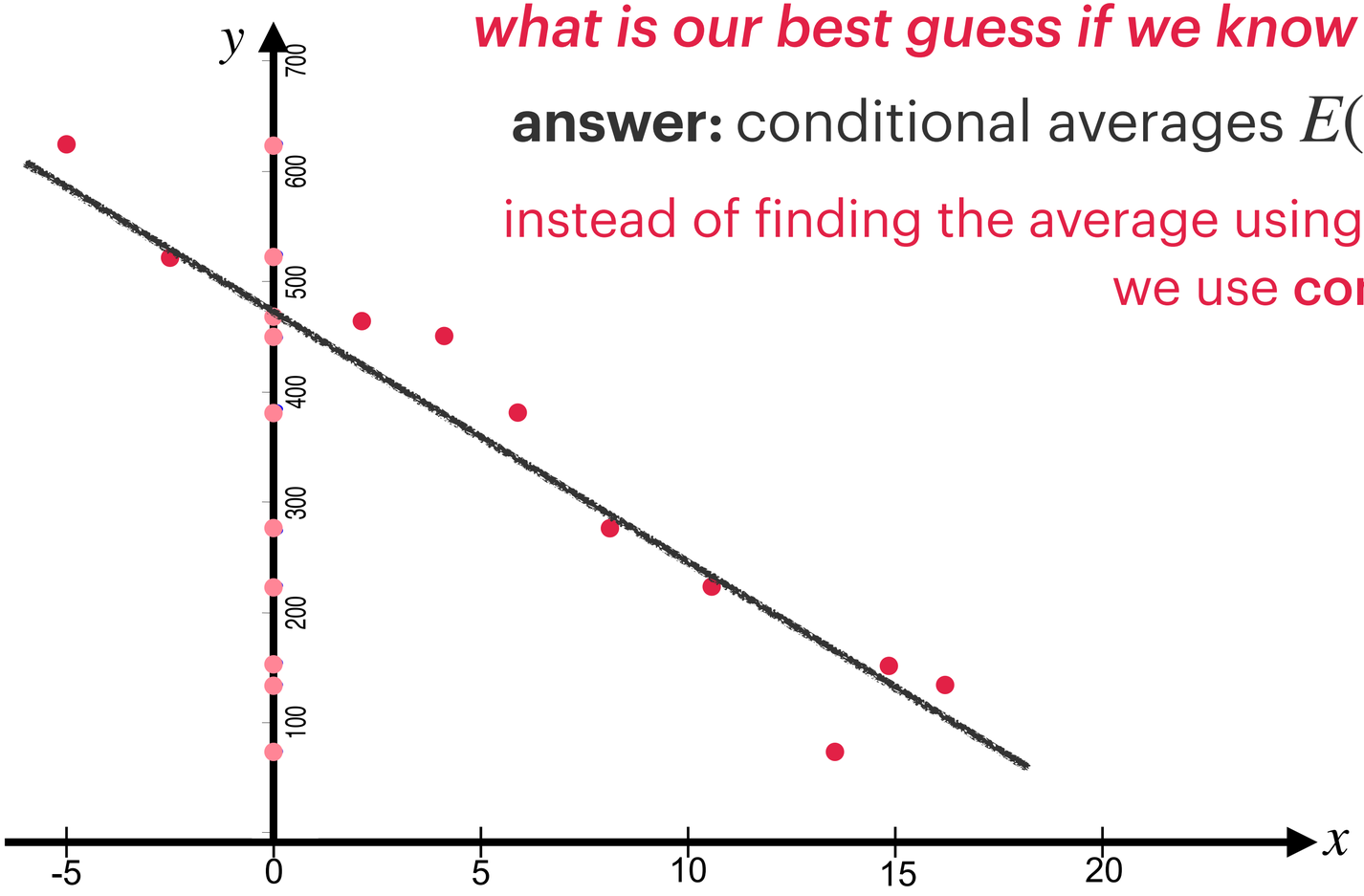

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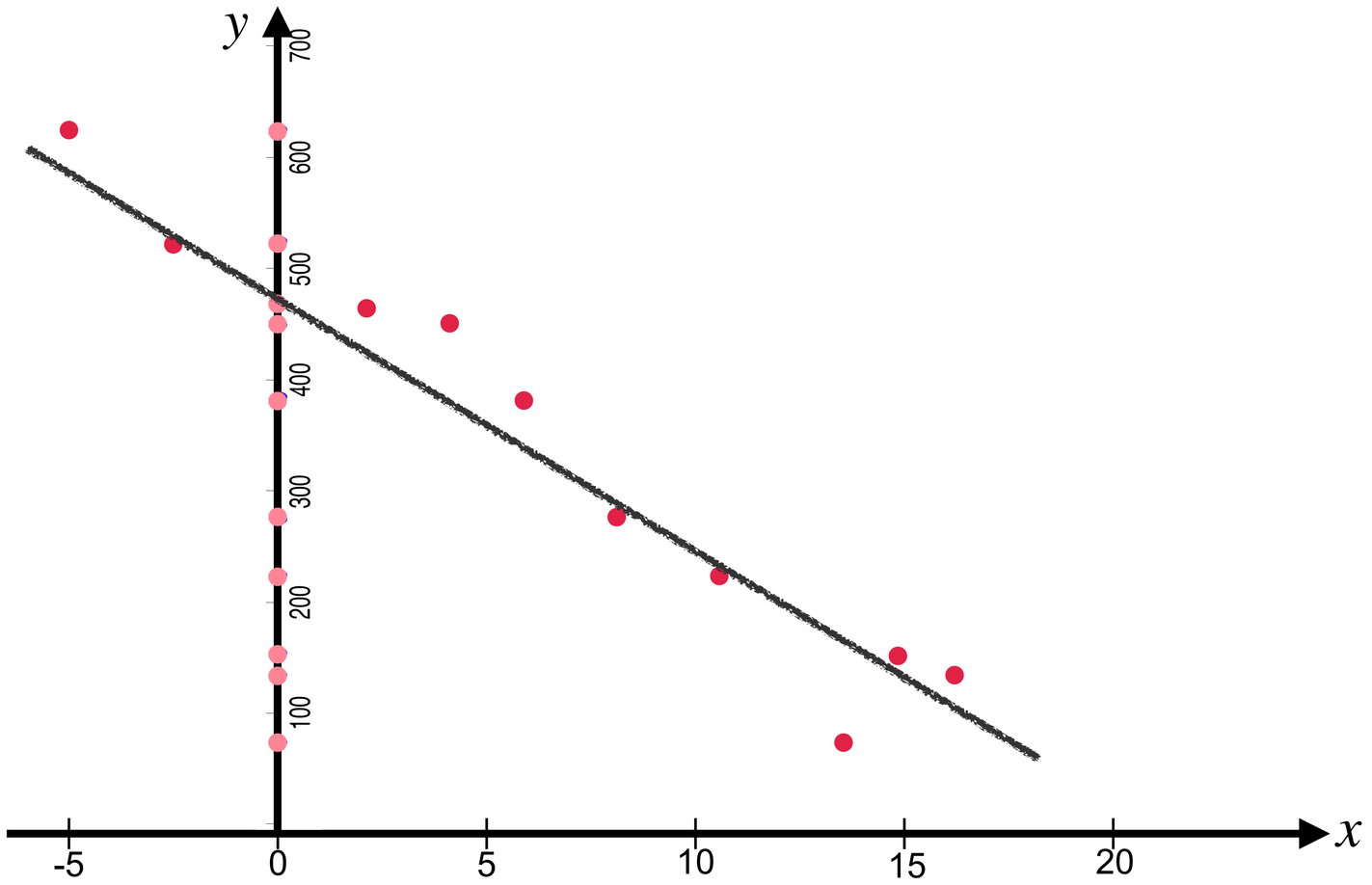
Example