

Averaging, Gaussian Filtering, Heat Flow

$$1, 2, 3 \quad a$$
$$(a-1)^2 + (a-2)^2 + (a-3)^2$$

No

Yes - 0

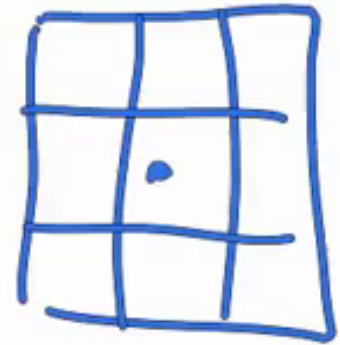
Yes - 2

Yes - 4

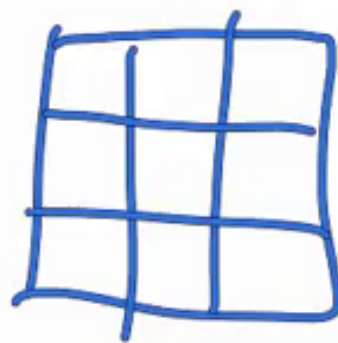
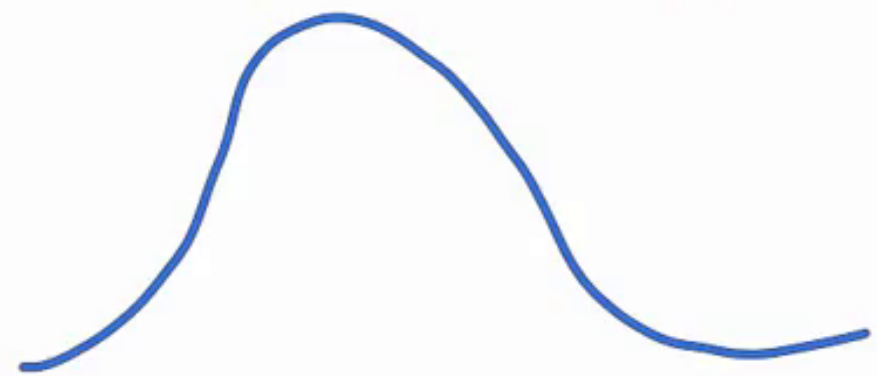


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$$N = \sum_i (a - a_i)^2$$
$$a = \overline{a_i}$$

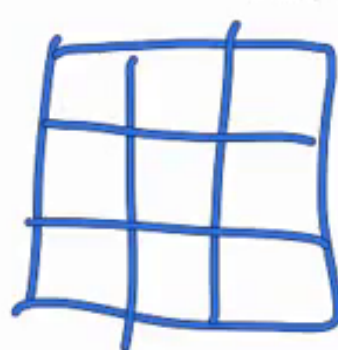


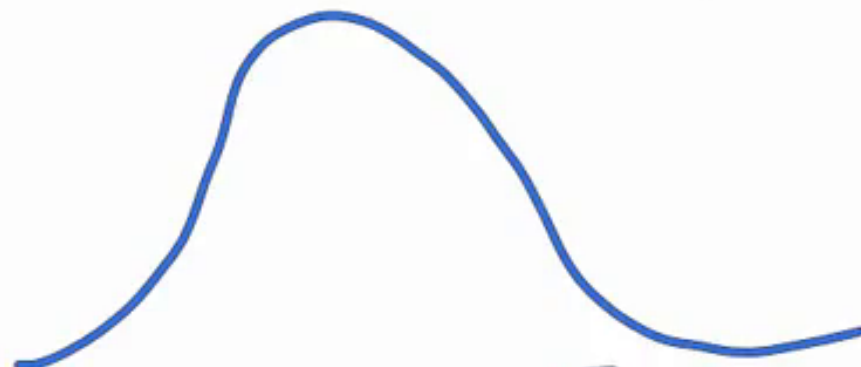
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$$f(x, y, \sigma) = f(x, y) * G(0, \sigma)$$




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$$f(x, y, t) = f(x, y) * G(0, \sigma)$$



$$\frac{df}{dt} = \Delta f = \frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial y^2}$$

