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If the distribution of heights is roughly normal, then for about 95% of the people, the estimate will be correct to within 6 inches.

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average: least squares estimate

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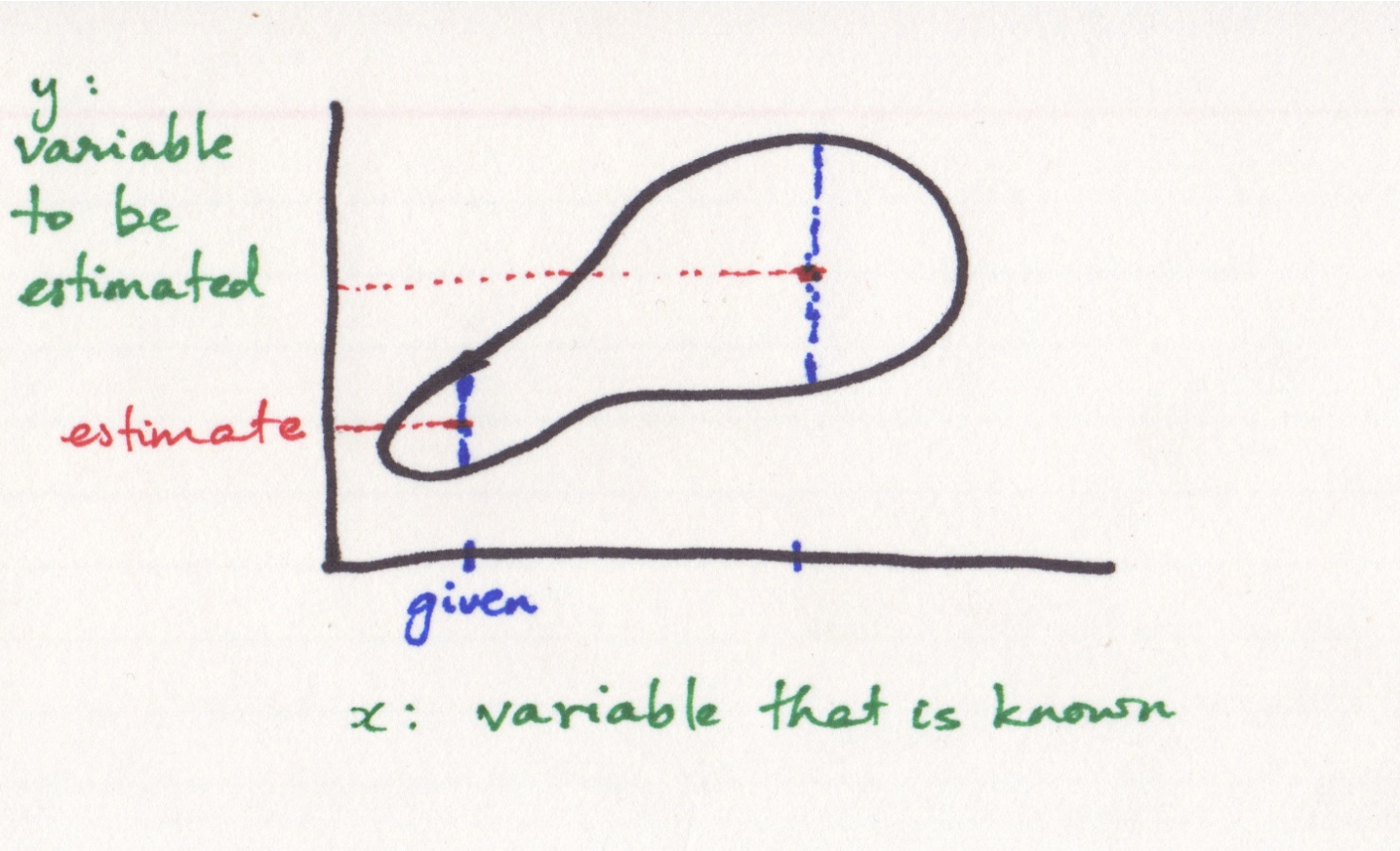

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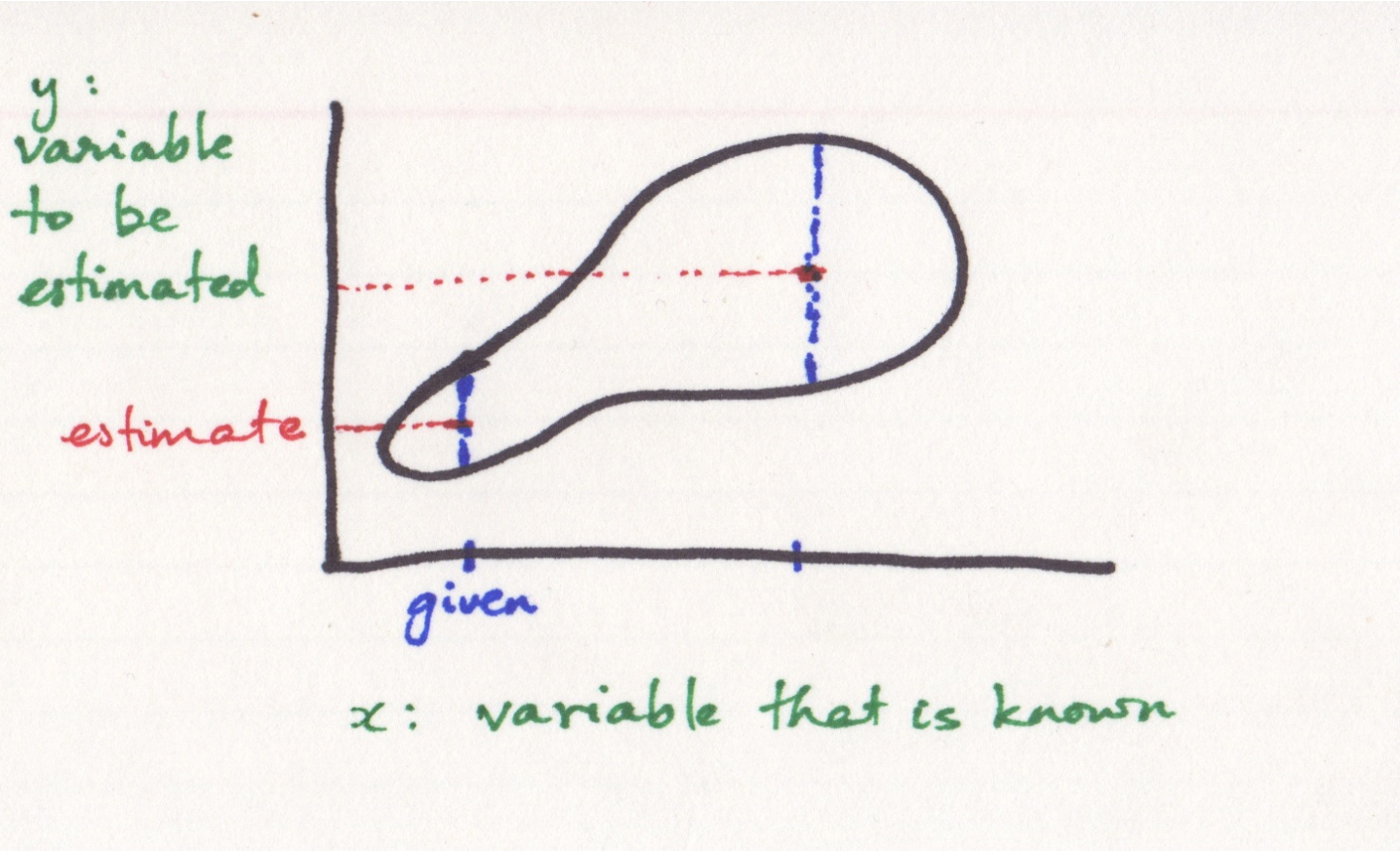

Each estimate is at the center of a vertical strip.

football shaped: *bivariate normal*

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If the scatter diagram is roughly **football shaped**, you can assume:

- **the distributions of both the variables are roughly normal**
- **the distribution of values in each vertical and horizontal strip is roughly normal**