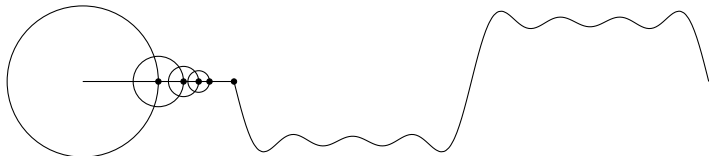Fourier Series of Square Wave

$$f(x) = \frac{4}{\pi} \sum_{\substack{n=1 \\ 2 \nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

($n = 1, 3, 5, 7$)   by Seungwon Park, illustr. & computed with LaTeX.

Fourier Series of Square Wave
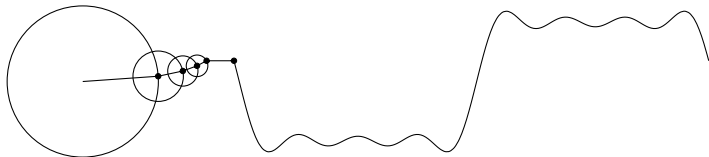
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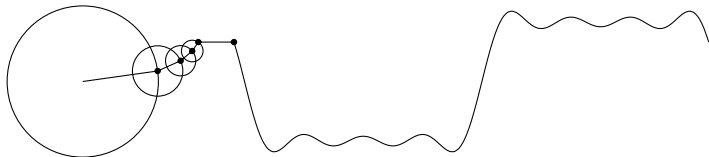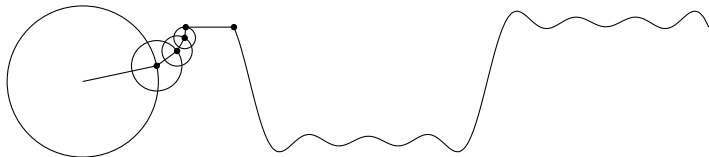
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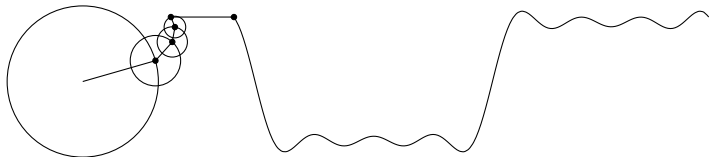$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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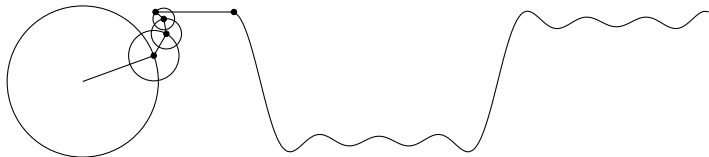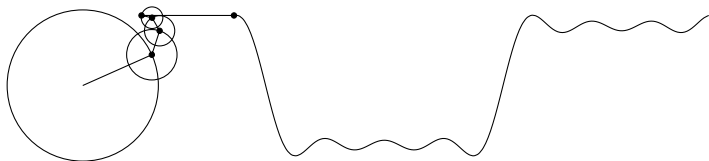$$f(x) = \frac{4}{\pi} \sum_{\substack{n=1 \\ 2 \nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

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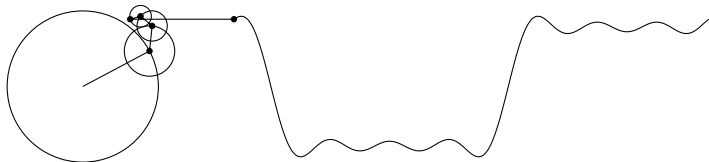$$f(x) = \frac{4}{\pi} \sum_{\substack{n \\ 2 \nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

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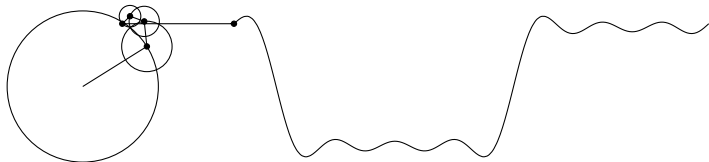

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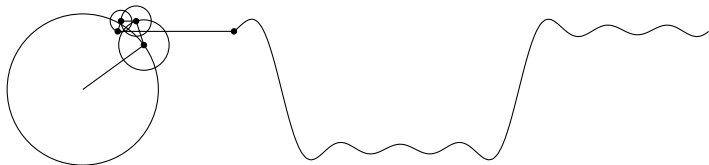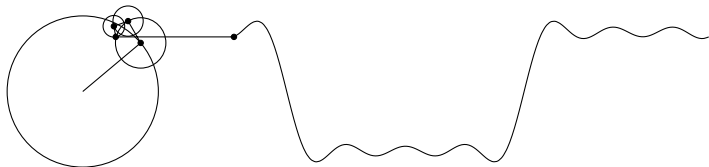

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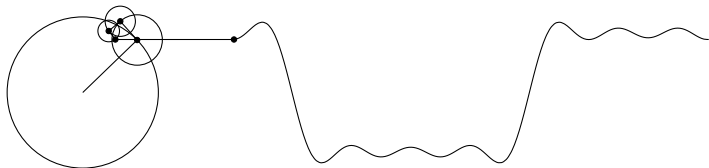$$f(x) = \frac{4}{\pi} \sum_{\substack{n=1 \\ 2\nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

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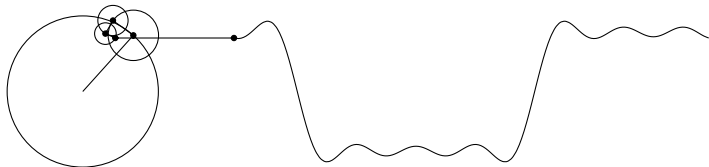

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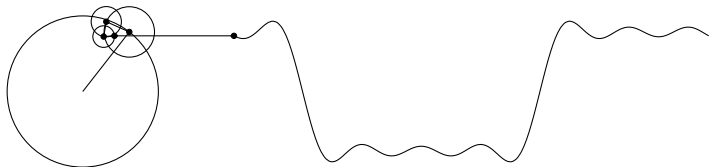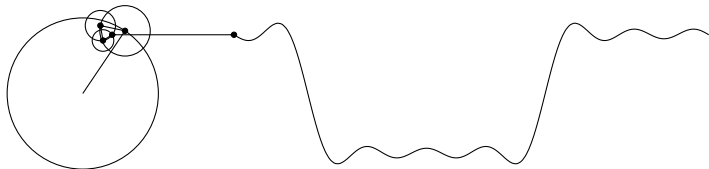$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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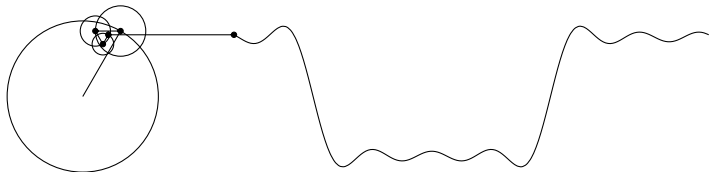$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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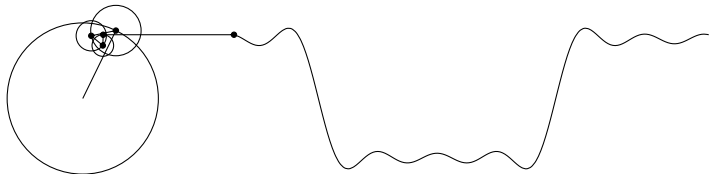$$f(x) = \frac{4}{\pi} \sum_{2\nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

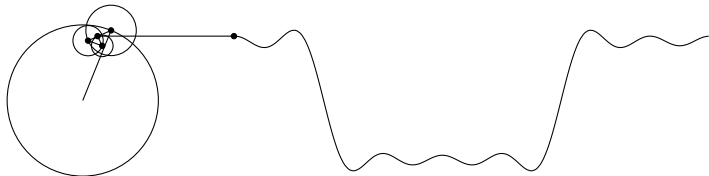$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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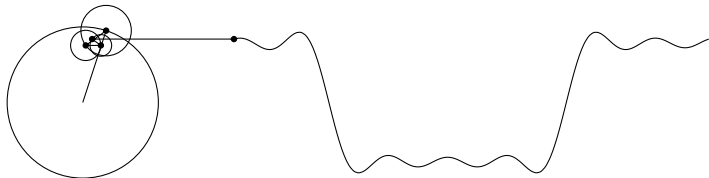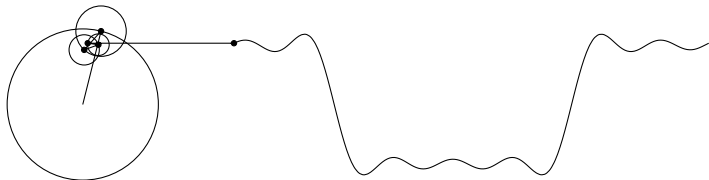$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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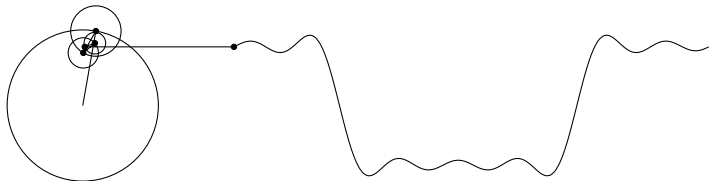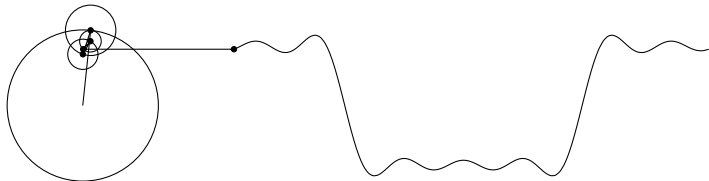$$f(x) = \frac{4}{\pi} \sum_{2 \nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

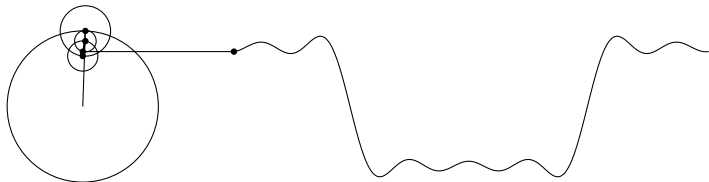$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LATEX.

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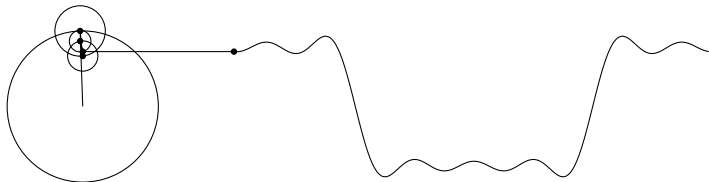

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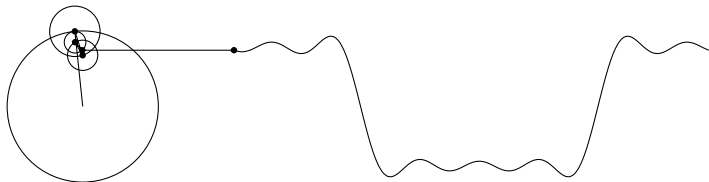$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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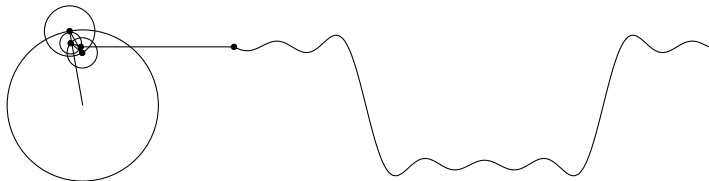$$f(x) = \frac{4}{\pi} \sum_{\substack{2 \nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$
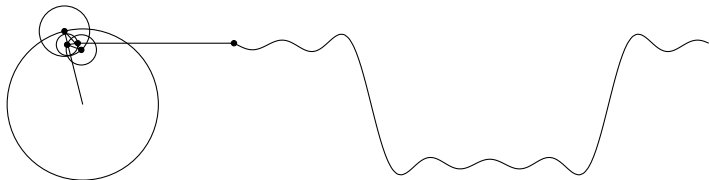

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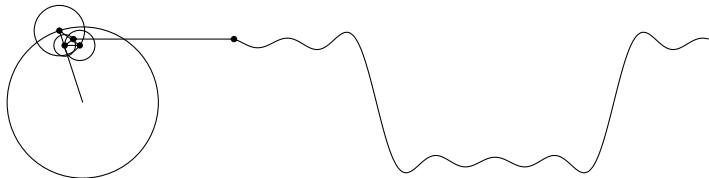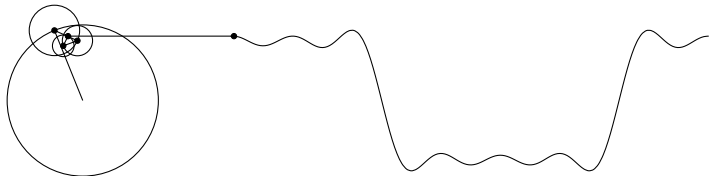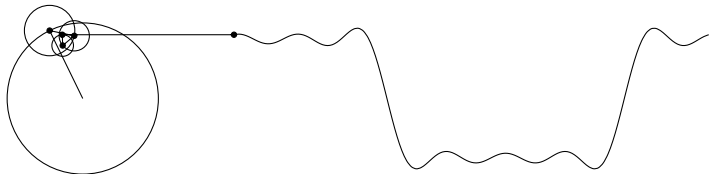$$f(x) = \frac{4}{\pi} \sum_{2\nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

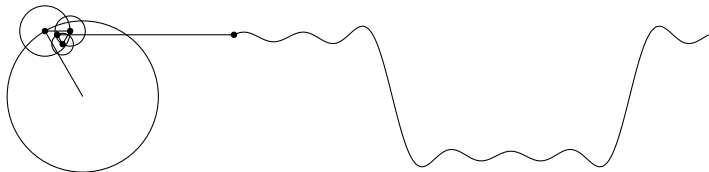$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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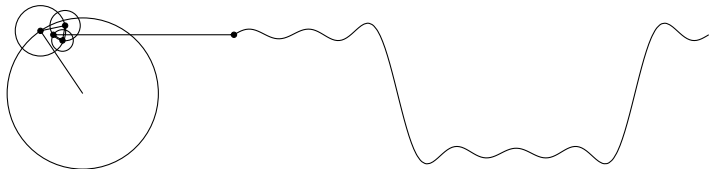$$f(x) = \frac{4}{\pi} \sum_{\substack{n=1 \\ 2\nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

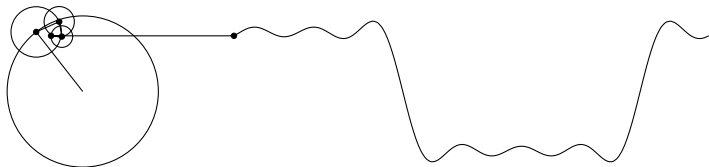$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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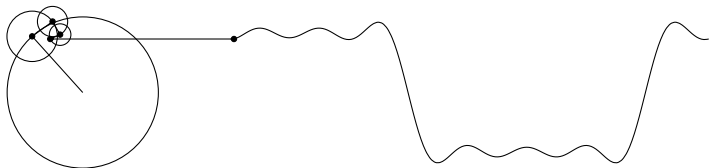$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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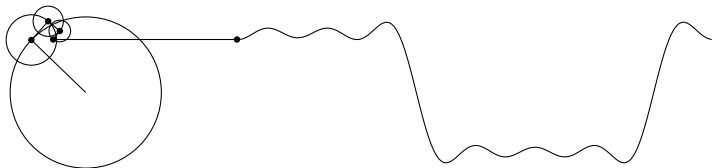

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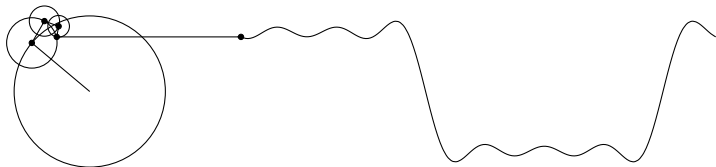$$f(x) = \frac{4}{\pi} \sum_{2 \nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

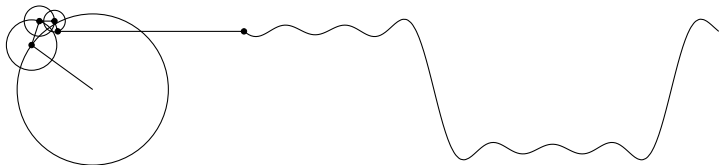$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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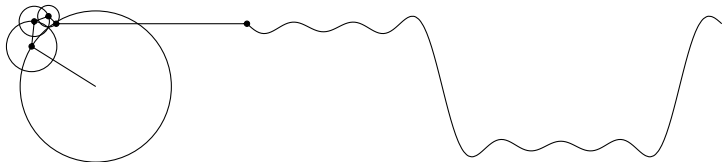
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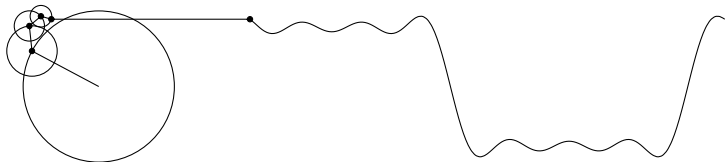

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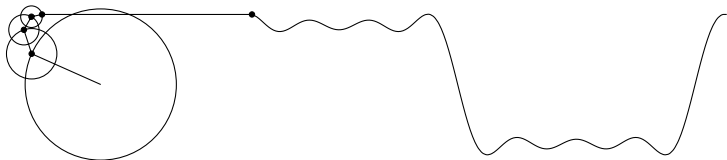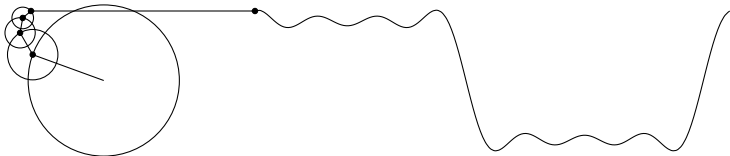$$f(x) = \frac{4}{\pi} \sum_{\substack{n \\ 2 \nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

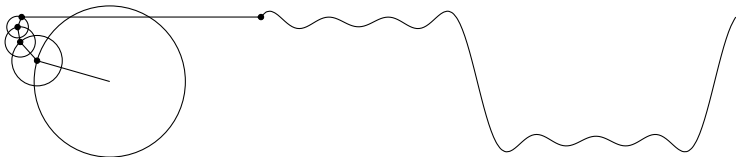$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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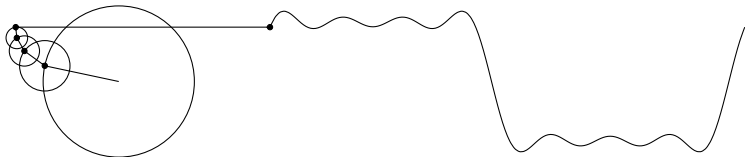

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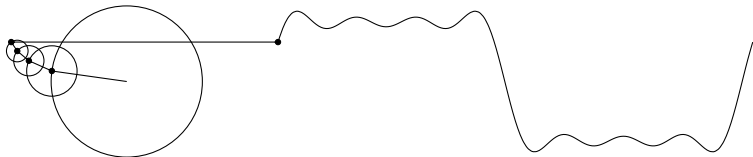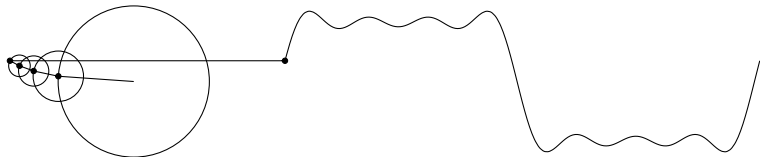$$f(x) = \frac{4}{\pi} \sum_{2 \nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

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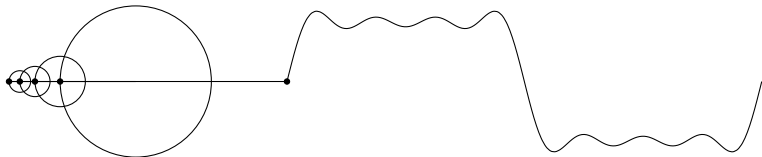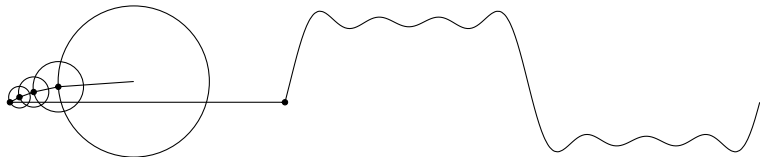

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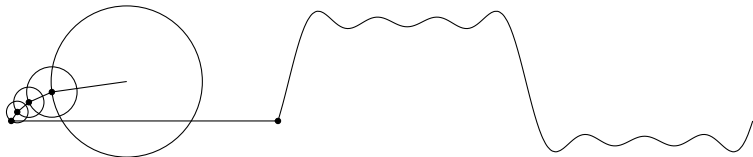$$f(x) = \frac{4}{\pi} \sum_{\substack{2 \nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

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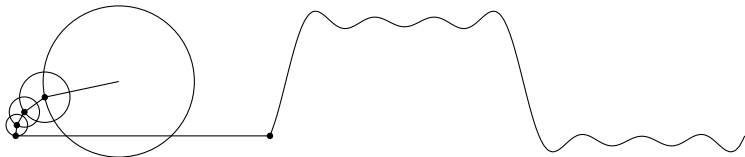$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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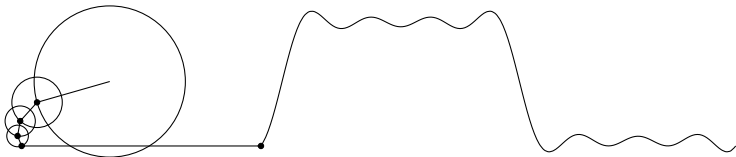$$f(x) = \frac{4}{\pi} \sum_{\substack{n \\ 2 \nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

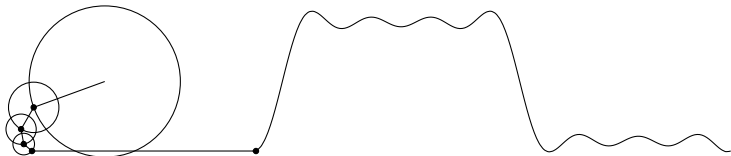$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LATEX.

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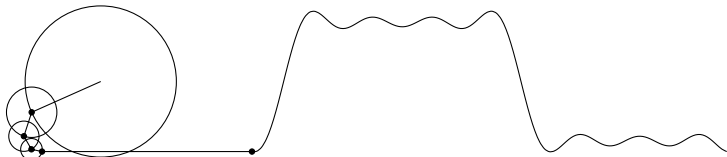$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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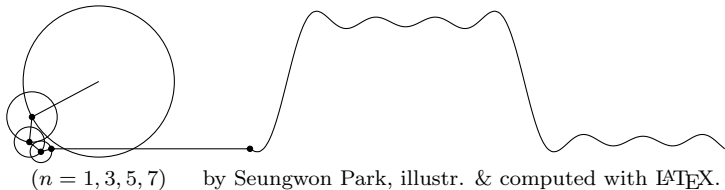$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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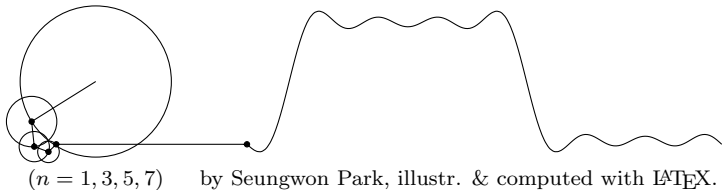$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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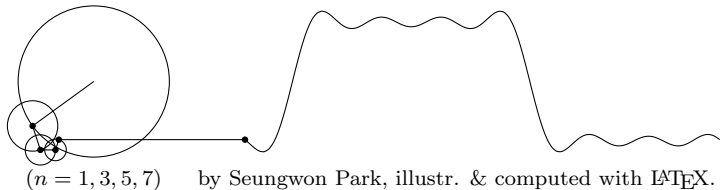$$f(x) = \frac{4}{\pi} \sum_{2 \nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

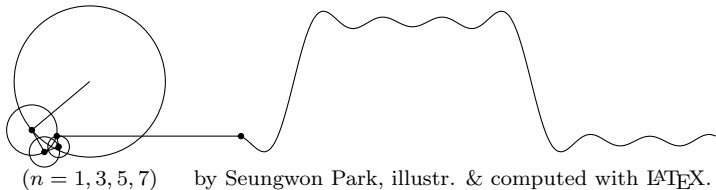$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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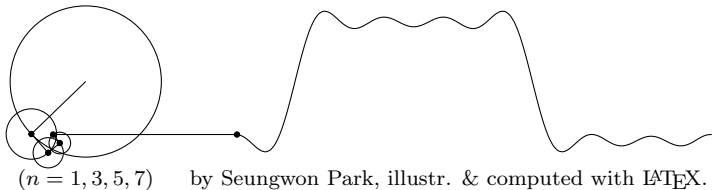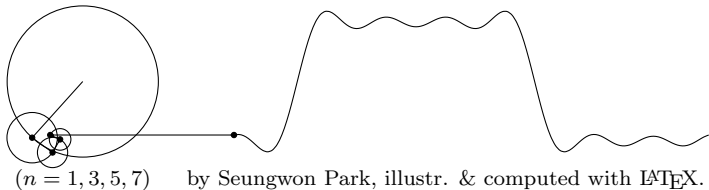$$f(x) = \frac{4}{\pi} \sum_{2 \nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

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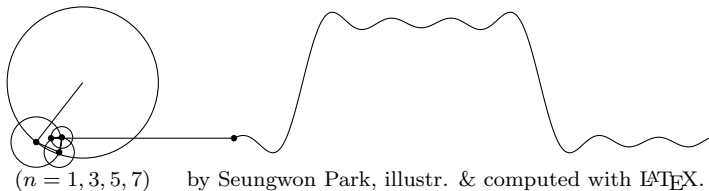$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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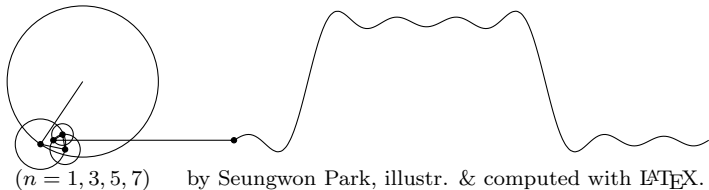$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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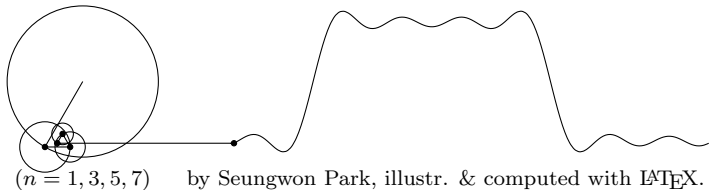$$f(x) = \frac{4}{\pi} \sum_{\substack{n \\ 2 \nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

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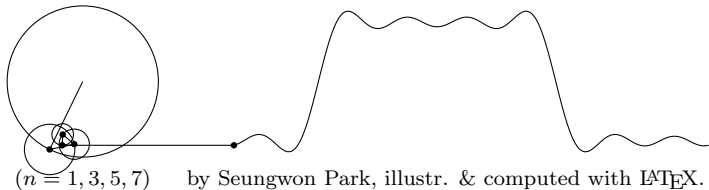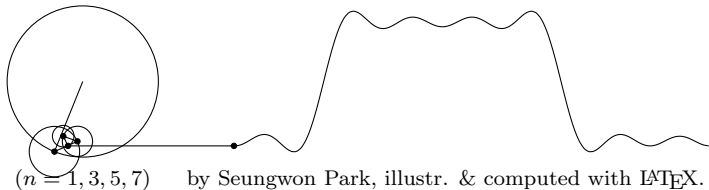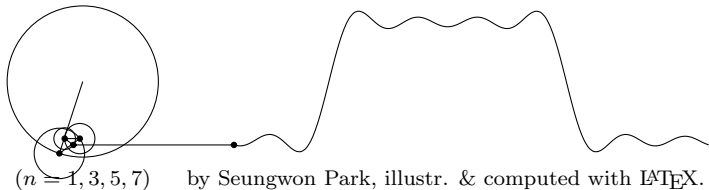$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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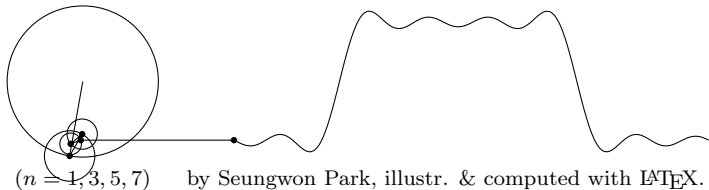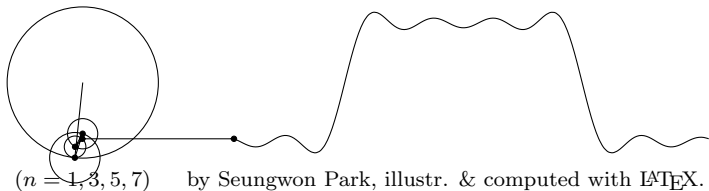$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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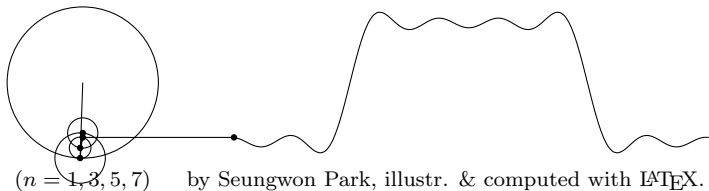$$f(x) = \frac{4}{\pi} \sum_{2 \nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

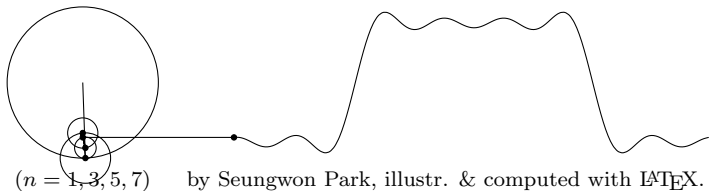$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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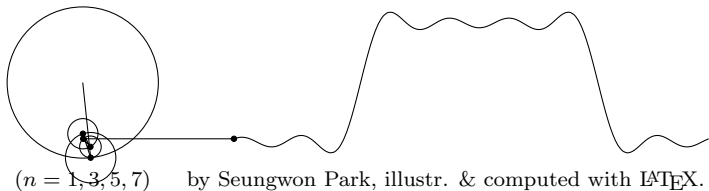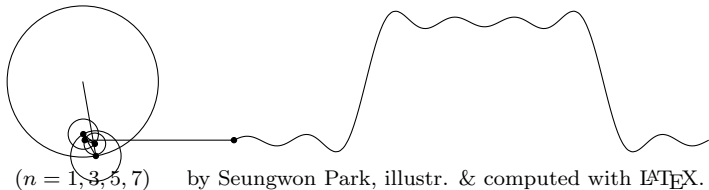$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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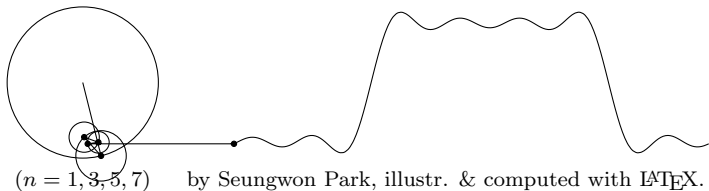$$f(x) = \frac{4}{\pi} \sum_{2\nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

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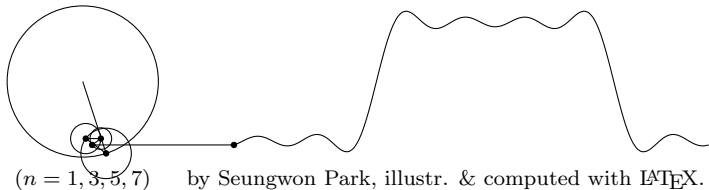$$f(x) = \frac{4}{\pi} \sum_{2 \nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

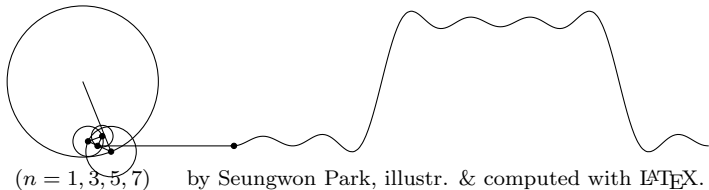$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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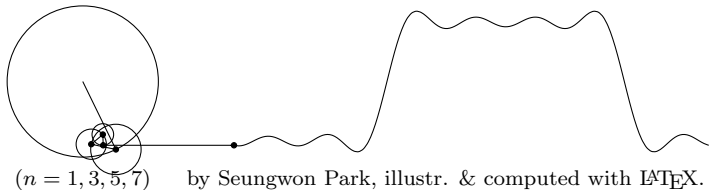$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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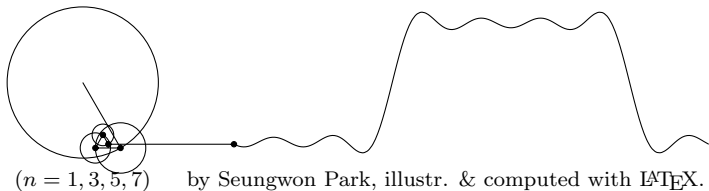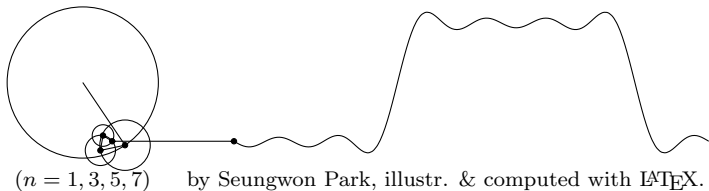$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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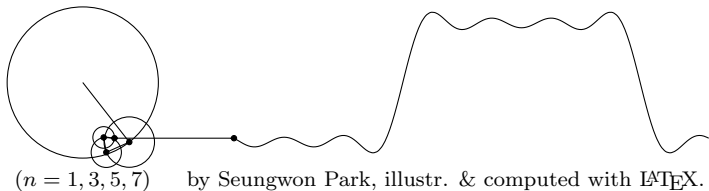$$f(x) = \frac{4}{\pi} \sum_{\substack{n=1 \\ 2 \nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

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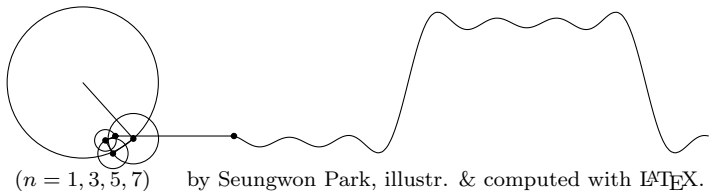$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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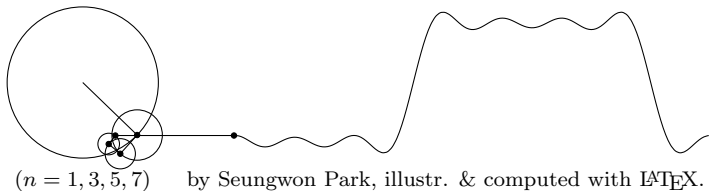$$f(x) = \frac{4}{\pi} \sum_{2 \nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

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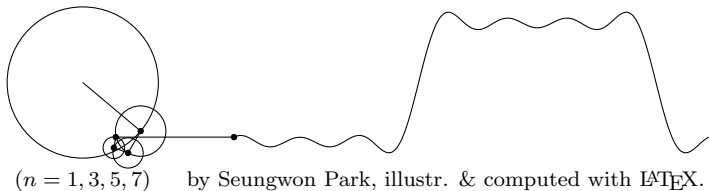$$f(x) = \frac{4}{\pi} \sum_{2\nmid n}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

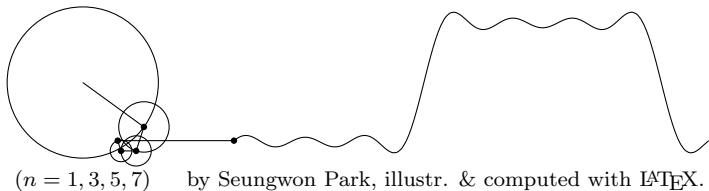$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.

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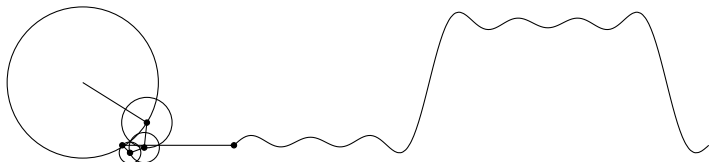$(n = 1, 3, 5, 7)$ by Seungwon Park, illustr. & computed with LaTeX.
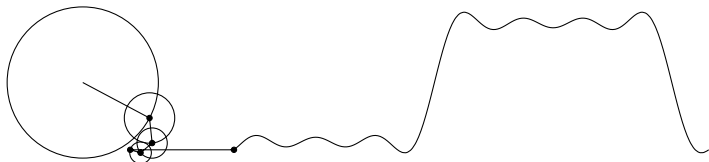
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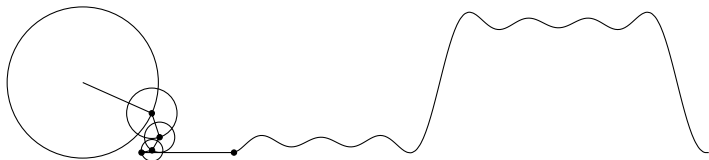
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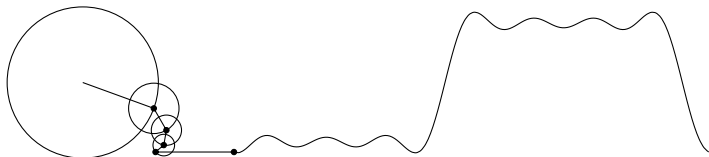
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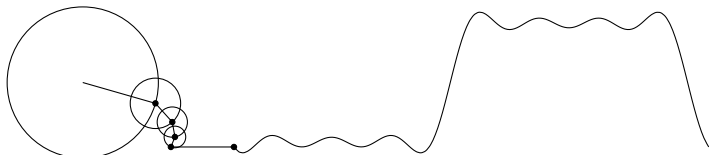
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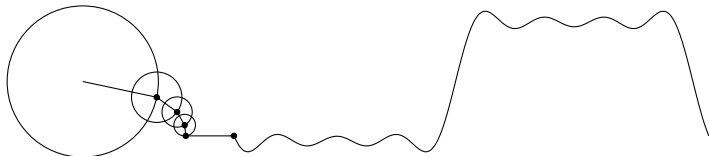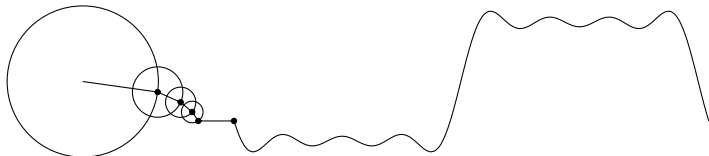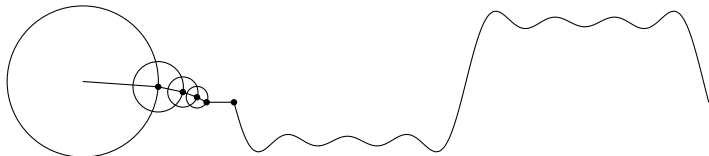
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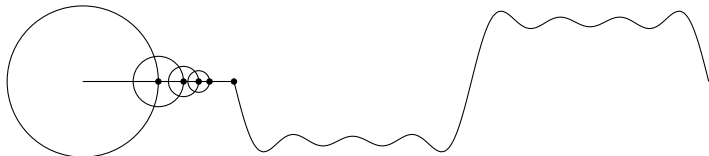$$f(x) = \frac{4}{\pi} \sum_{\substack{n \\ 2 \nmid n}}^{\infty} \frac{1}{n} \sin\left(\frac{n\pi x}{L}\right).$$

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