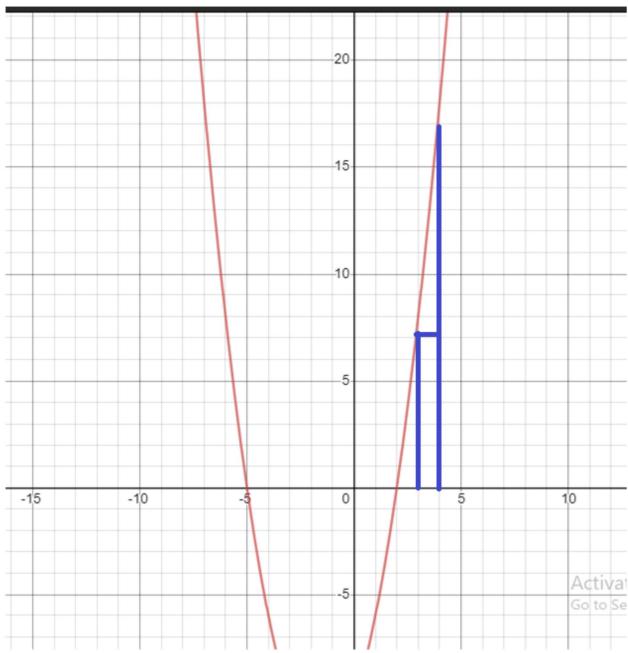
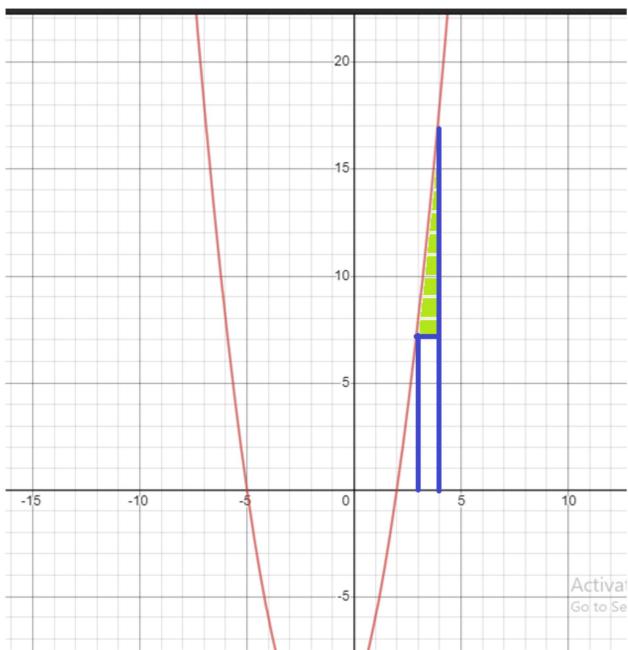
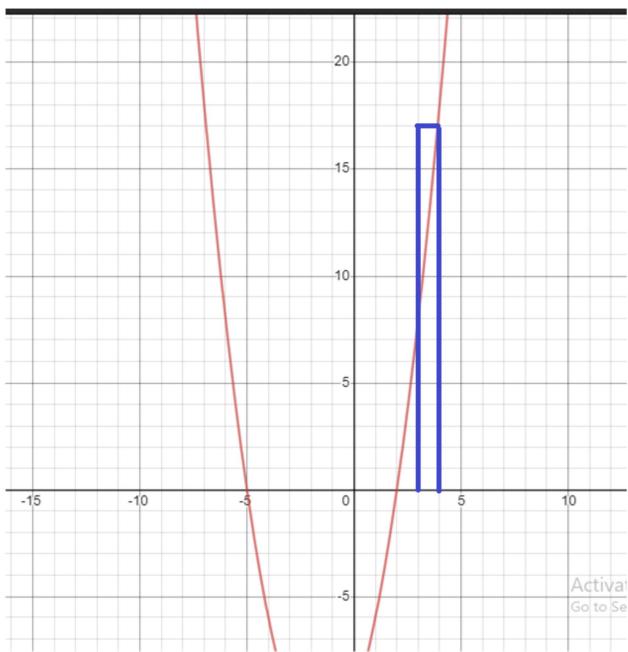


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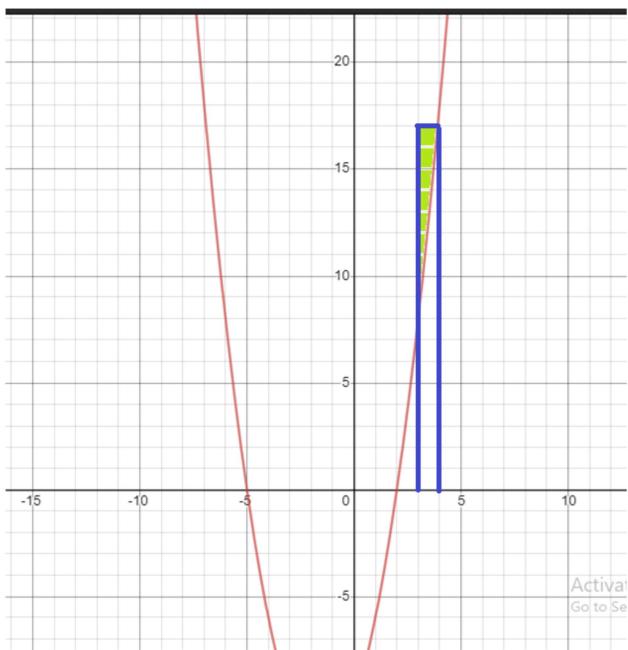


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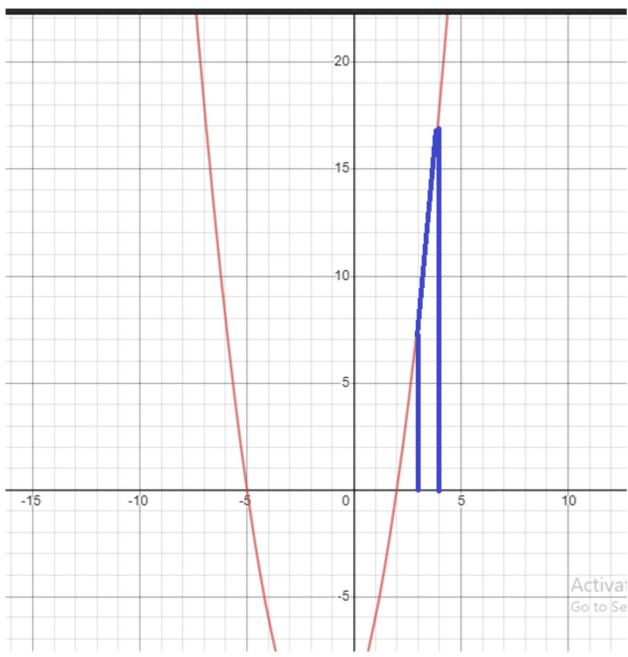




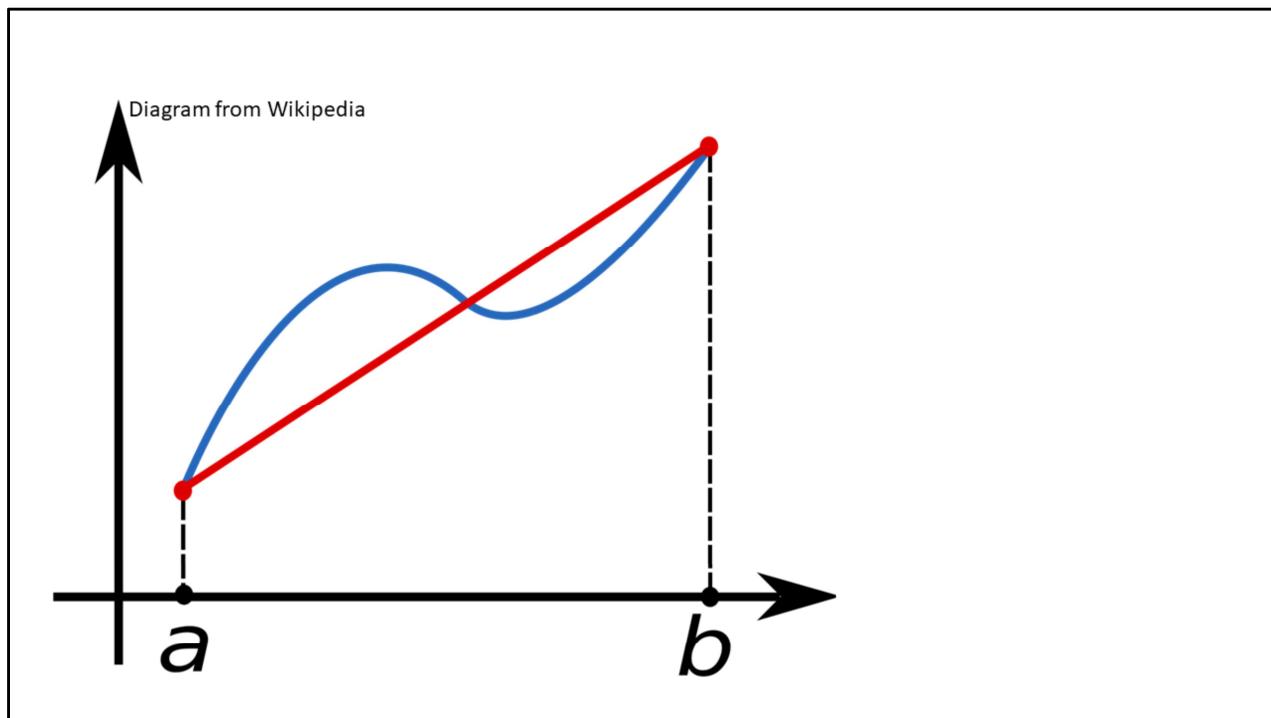
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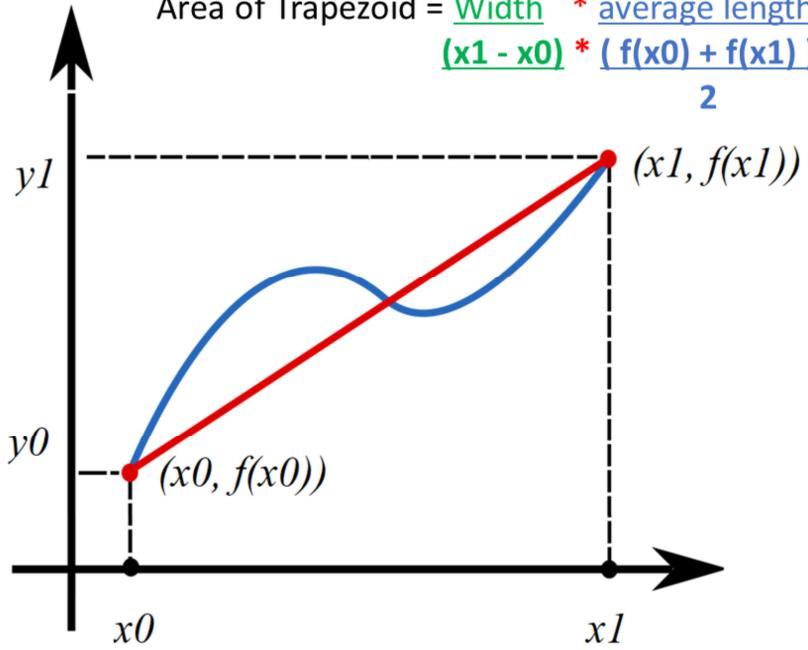
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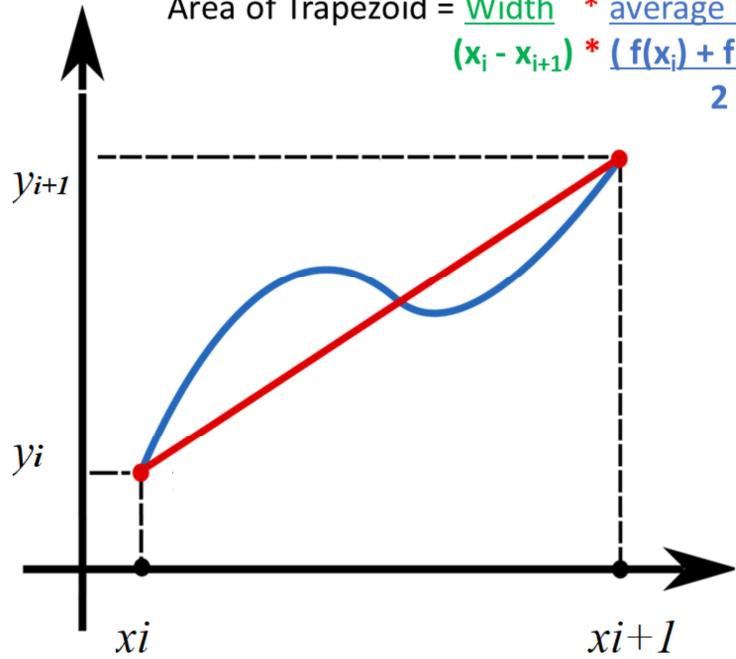
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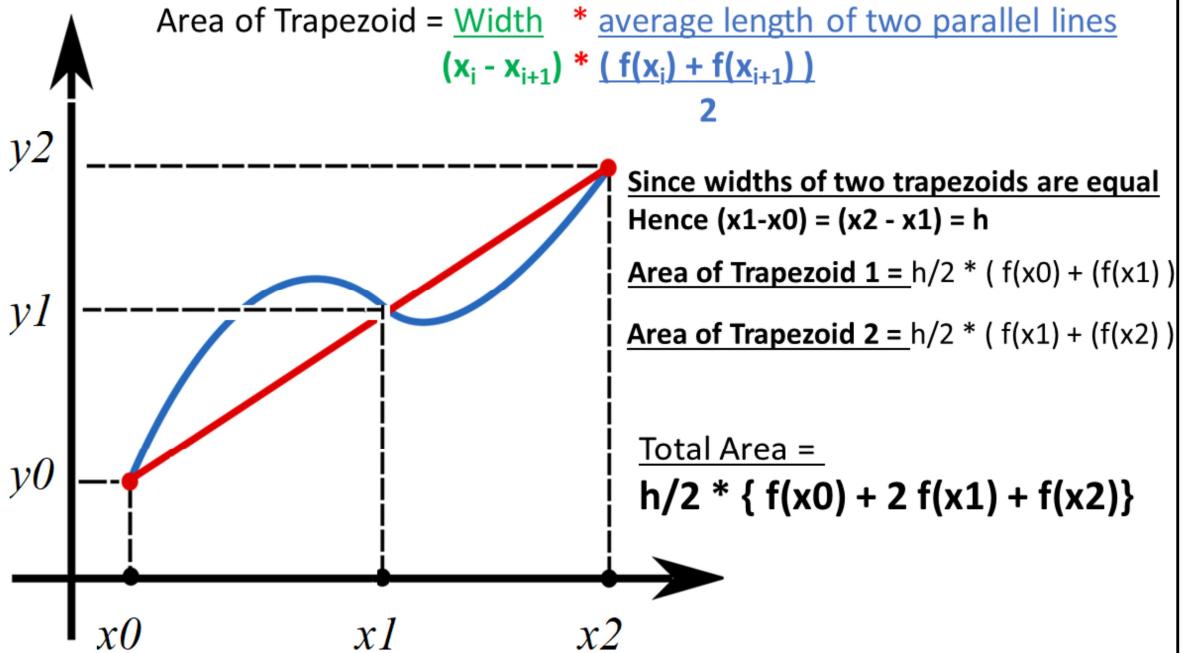


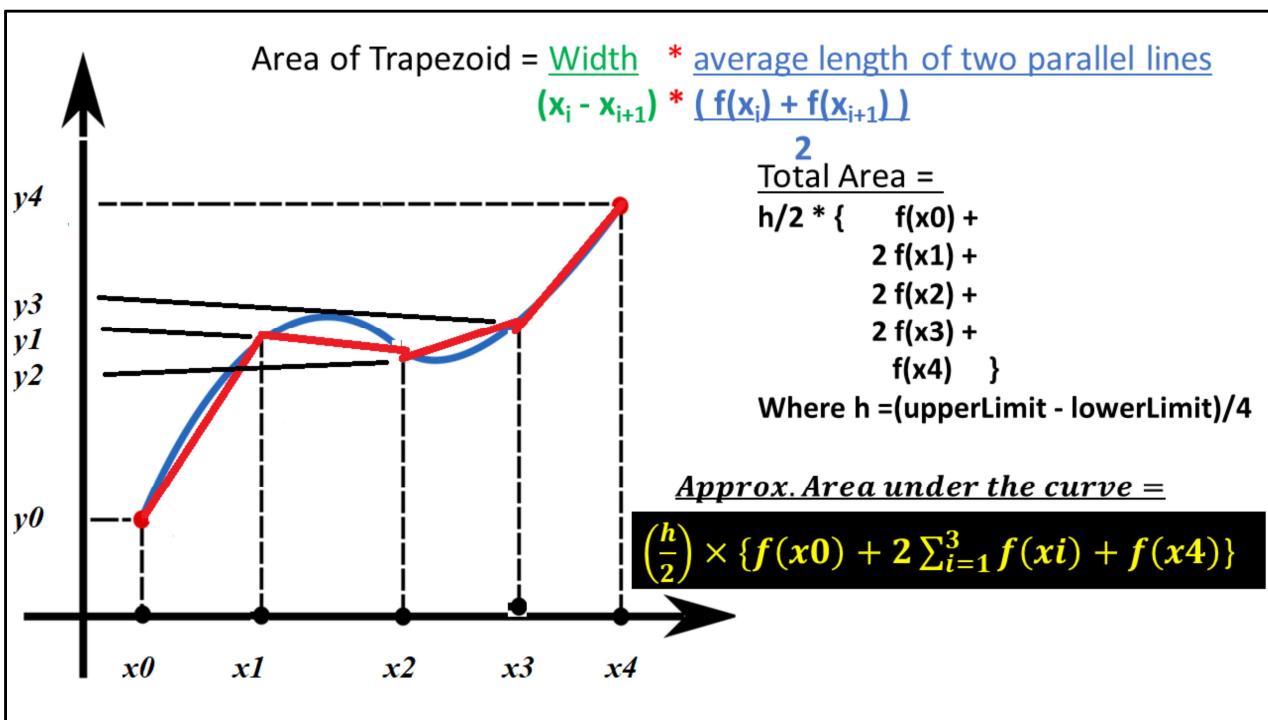
$$\text{Area of Trapezoid} = \frac{\text{Width} * \text{average length of two parallel lines}}{2}$$
$$\frac{(x_1 - x_0) * (f(x_0) + f(x_1))}{2}$$



$$\text{Area of Trapezoid} = \frac{\text{Width}}{2} * \text{average length of two parallel lines}$$
$$\frac{(x_i - x_{i+1}) * (f(x_i) + f(x_{i+1}))}{2}$$







$$\left(\frac{h}{2}\right) \times \{f(x0) + 2 \sum_{i=1}^3 f(xi) + f(x4)\}$$

If n is used in place of 4 (or in other words, n=4)

$$\left(\frac{h}{2}\right) \times \{f(x0) + 2 \sum_{i=1}^{n-1} f(xi) + f(xn)\}$$

The above formula is an approximation of definite integral. This approximation gets closer to actual values when n is increased