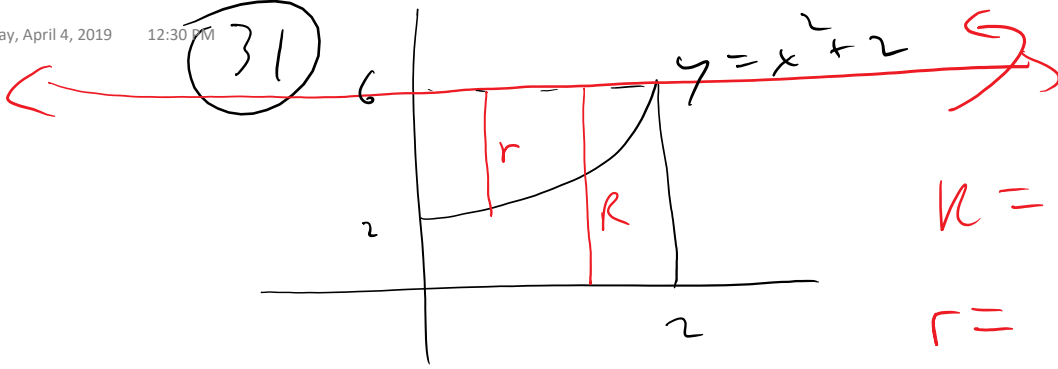


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$$R = 6$$

$$r = 6 - (x^2 + 2)$$
$$= 4 - x^2$$

$$\pi \int_0^2 (6^2 - (4 - x^2)^2) dx$$

$$h(z) > h'(z) > h''(z)$$

$$h(z) = \int_0^z f > 0$$

⊆

$$h'(z) = f(z) = 0$$

$$h''(z) = f'(z) < 0$$

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⊂