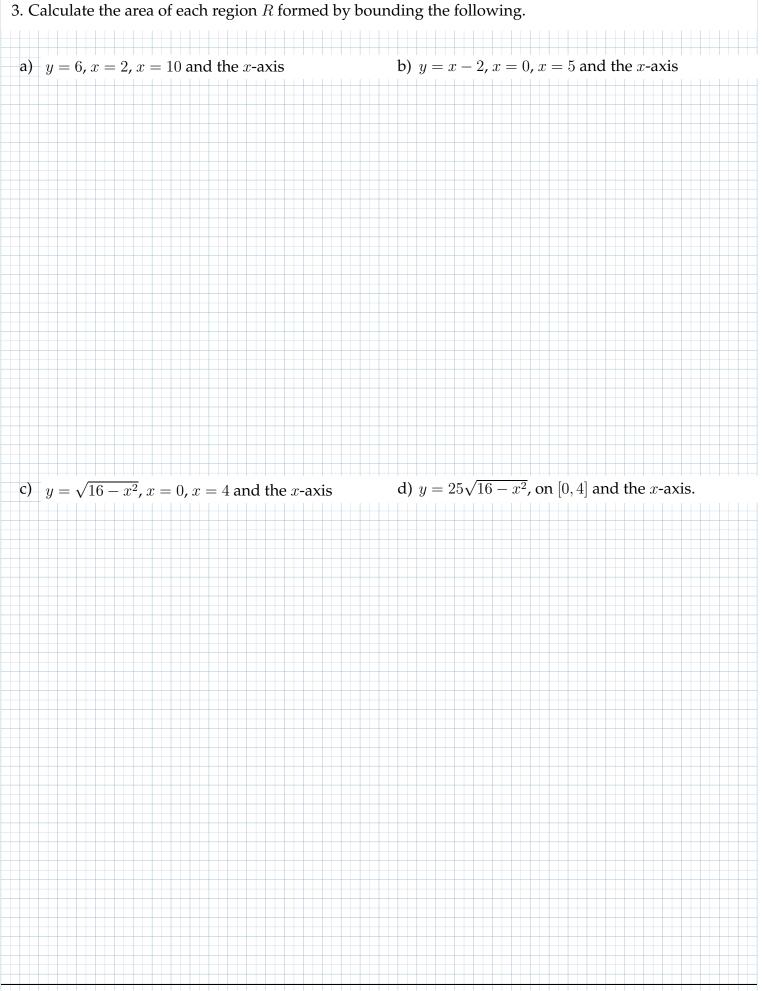


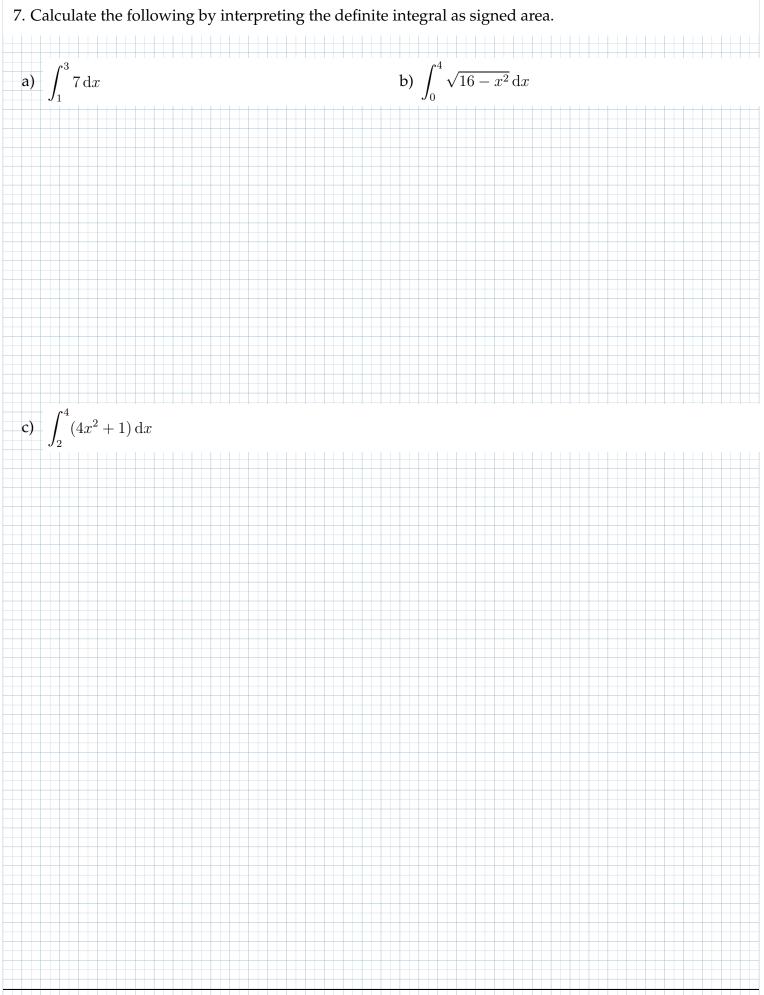
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. Calculate using Riemann sums the area of the region R formed by bounding $y = 4x^2 + 1$, $x = 2$, $x = 4$ nd the x -axis.												
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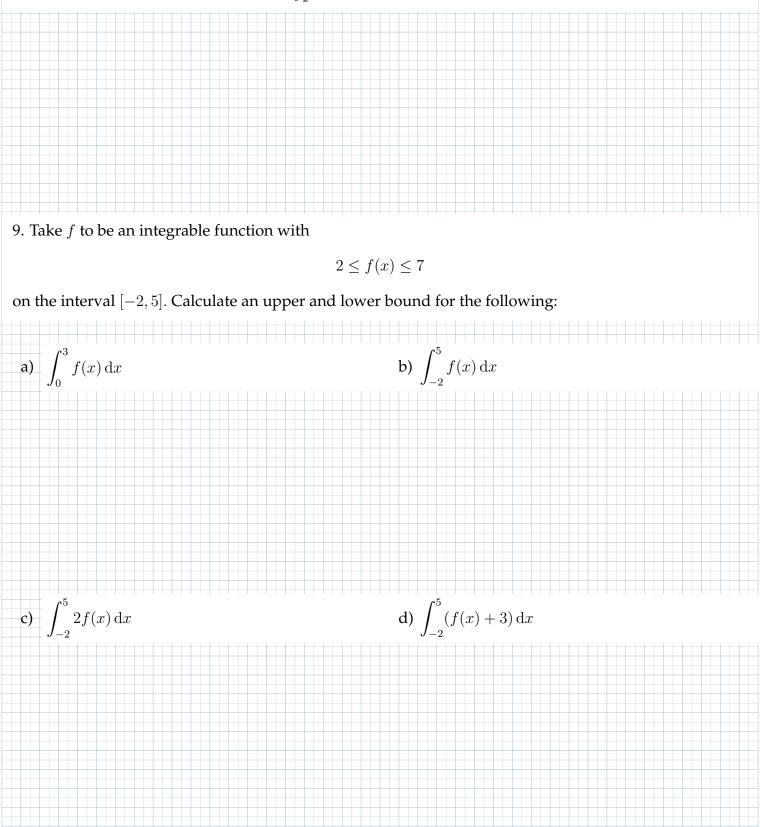


8. Take f and g to be integrable functions with

$$\int_{2}^{5} f(x) \, \mathrm{d}x = -2 \quad \text{and} \quad \int_{2}^{5} g(x) \, \mathrm{d}x = 6.$$

Calculate the following:

$$\int_{2}^{5} (2f(x) + g(x) + 4) \,\mathrm{d}x.$$



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