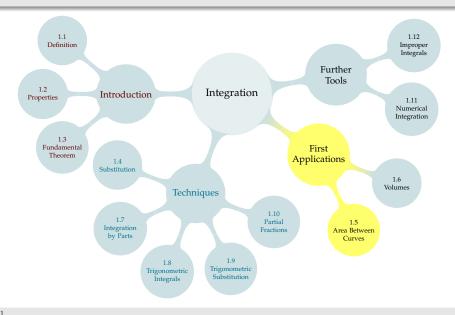
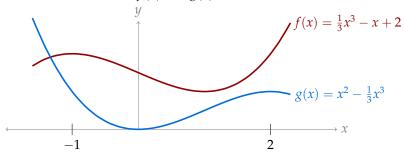
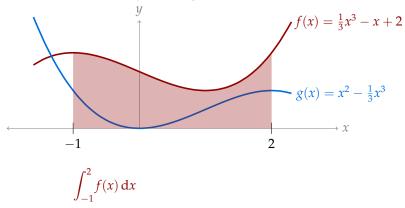
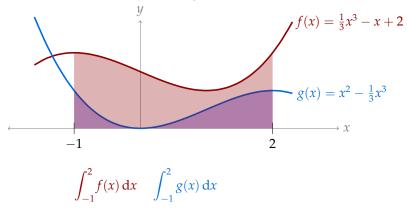
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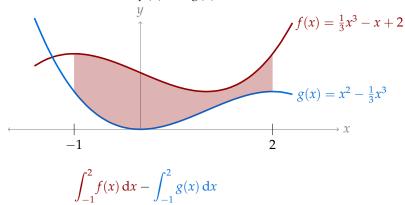




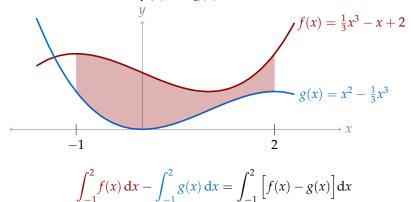














$$f(x) = \frac{1}{3}x^3 - x + 2$$

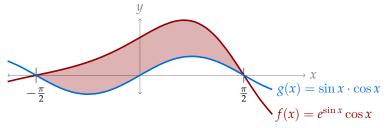
$$f(x) = \frac{1}{3}x^3 - x + 2$$

$$g(x) = x^2 - \frac{1}{3}x^3$$

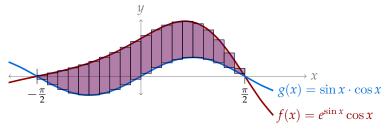
$$\int_{-1}^{2} f(x) \, dx - \int_{-1}^{2} g(x) \, dx = \int_{-1}^{2} \left[ f(x) - g(x) \right] dx$$



Find the (unsigned) area between f(x) and g(x) from  $x = -\frac{\pi}{2}$  to  $x = \frac{\pi}{2}$ .



Find the (unsigned) area between f(x) and g(x) from  $x = -\frac{\pi}{2}$  to  $x = \frac{\pi}{2}$ .



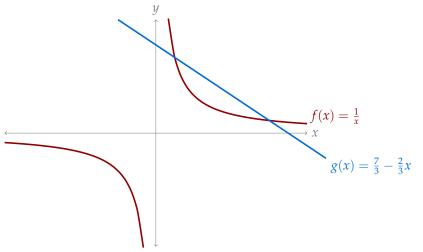


Find the (unsigned) area between f(x) and g(x) from  $x = -\frac{\pi}{2}$  to  $x = \frac{\pi}{2}$ .



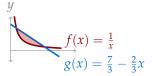


Find the (unsigned) area of the finite region bounded by f(x) and g(x).



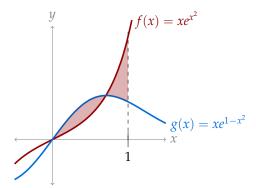


Find the (unsigned) area of the finite region bounded by f(x) and g(x).



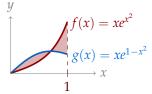


Find the (unsigned) area in the figure below between the curves f(x) and g(x) from x = 0 to x = 1.



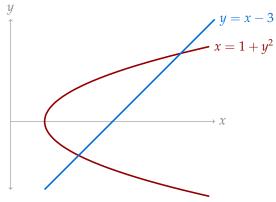


Find the (unsigned) area in the figure below between the curves f(x) and g(x) from x = 0 to x = 1.

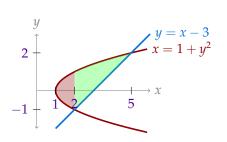


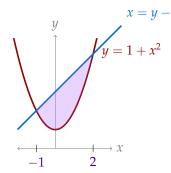


Set up, but do not evaluate, integral(s) to find the (unsigned) area of the finite region bounded by  $x = 1 + y^2$  and y = x - 3.



Set up, but do not evaluate, integral(s) to find the (unsigned) area of the finite region bounded by  $x = 1 + y^2$  and y = x - 3. Swapping x and y results in a figure with the same area.





## Included Work

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