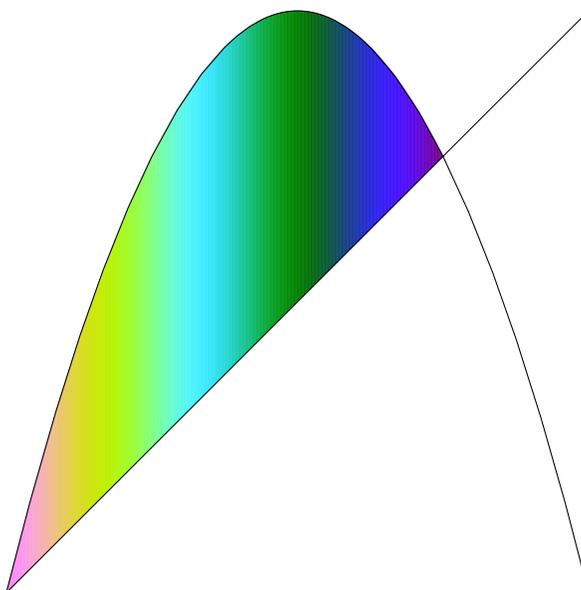


- 1) Find the area of the region enclosed by the curves  $y = x - x^3$  and  $y = x/4$ .



- 2) What is  $\int \int_R x^2 + y \, dx dy$  where  $R$  is the region enclosed by the curves  $y = x^{1/4}$  and  $y = x^2$ . Write down the integral as a  $y$ -simple (type I) as well as a  $x$ -simple (type II) integral.

