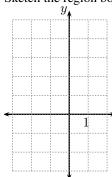
Calculus I

Homework

Definite integrals and areas between curves

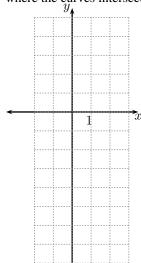
- 1. (a) Find the area of the region bounded by the curves $y = 2x^2$ and $y = 4 + x^2$.
 - (b) Find the area of the region bounded by the curves $x = 4 y^2$ and y = 2 x.
 - (c) Find the area of the region bounded by the curves $y = x^2$ and $y = 2x^2 + x 2$.
 - (d) Sketch the region bounded by the curves $y = x^2$ and $y = 2x^2 + x 2$.



• Find the area of the region.

(e)

• Sketch the region bounded by the curves $y = -x^2 + 2x - 1$ and $y = -2x^2 + 3x + 1$. Make sure to indicate the points where the curves intersect.



• Find the area of the region.