

Calculus BC

Section 7.1 – Areas of Regions Between Curves

1. Find the area bounded by $y = 7 - 2x^2$ and $y = x^2 + 4$.

-graph both curves

-find points of intersection

-vertical rectangles

2. Find the area bounded by $y = x^3$ and $y = 3x^2 - 4$.

3. Find the area bounded by $x = y^3 - y^2$ and $x = 2y$.

-graph the inverse of

$$y = x^3 - x^2 \text{ and } y = 2x$$

-use _____rectangles