

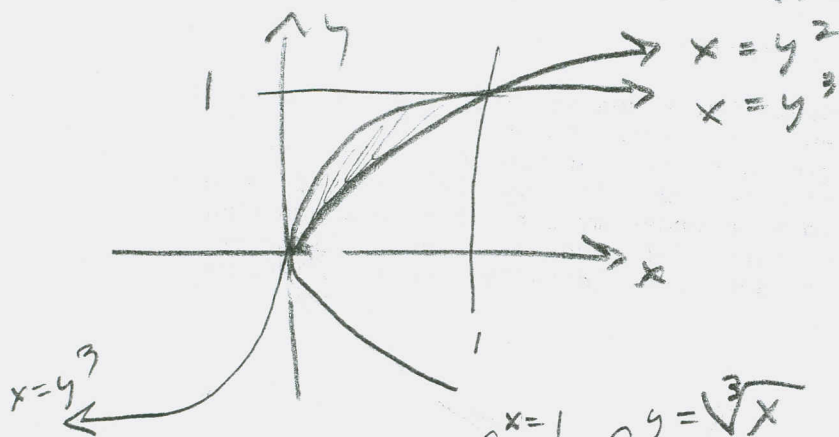
203 S 16.3 # 20 (Miscopy?) Ex 20

(20) Under $z = 2x + y^2$ and above
 the region in the xy -plane bounded by

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

$$y = \sqrt{x}$$

$$y = \sqrt[3]{x}$$



$$\text{Type I: } \int_{x=0}^{x=1} \int_{y=\sqrt{x}}^{y=\sqrt[3]{x}} (2x+y^2) dy dx = \dots = \frac{19}{210}$$

$$\text{Type II: } \int_{y=0}^{y=1} \int_{x=y^3}^{x=y^2} (2x+y^2) dx dy = \dots = \frac{19}{210}$$