Maths Formula Sheet

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CHAPTER 21

Area Under Curves

Area bounded by curves

UNDER A CURVE

$$A = \int_a^b |f(x)|\,dx \qquad \text{or} \qquad A = \int_c^d |g(y)|\,dy$$

BETWEEN TWO CURVES

$$A = \int_a^b \big(f(x) - g(x)\big)\,dx, \qquad f(x) \geq g(x) \text{ on } [a, b]$$

STANDARD AREAS

$$\text{ellipse } \pi ab; \qquad y^2 = 4ax \text{ and } x^2 = 4by : \frac{16ab}{3}$$

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