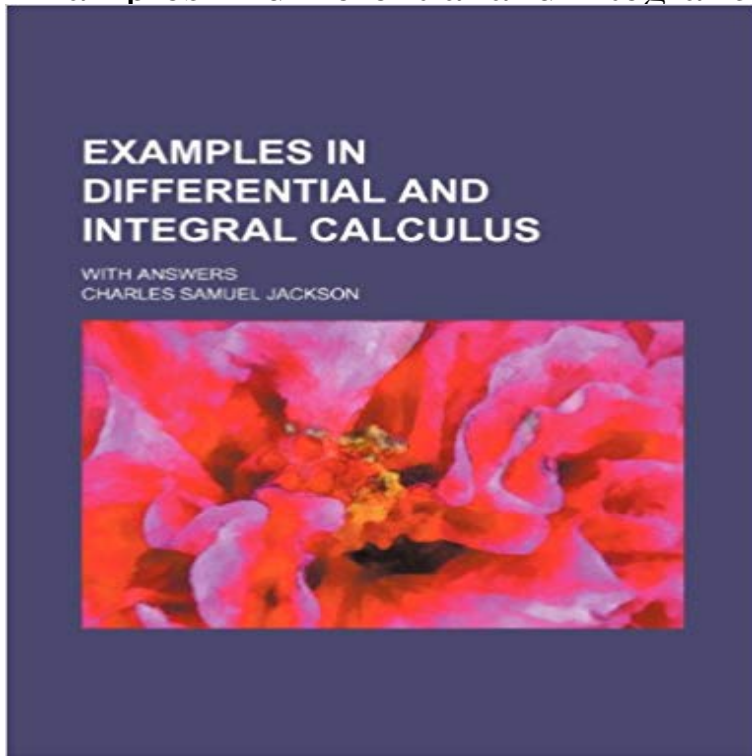


## Examples in differential and integral calculus; with answers



This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1921 Excerpt: ... Deduce the area between the arc  $OP$  and the chord  $OP$ ,  $O$  being the origin.  $fa+26$  8. Find  $\int (x-a-b)dx$   $Ja+b$  directly, and also by putting  $x = a + b + z$ . Illustrate by a diagram showing  $x$ ,  $z$ , and the geometrical meaning of the integral. The area bounded by the parabola whose equation is  $y^2 = 18a$ ; and by the chord cut off by the straight line  $x = 2$  revolves round the straight line  $x = 6$ . Find the volume of the solid formed, all lengths being in feet. Illustrate the second integration by a diagram, and explain briefly but clearly the effect on the actual area of the diagram of the scales on which  $x$  and  $y$  are represented.

53. 1. Find the areas of the segments cut off by the axis of  $x$  from the curve  $y = x(x-3)(x+2)$ . 2. Draw a figure showing the portion of the area of the circle  $x^2 + y^2 = a^2$  which is represented by the integral  $\int \sqrt{a^2-x^2}dx$ ,  $Jo$  and from the geometry of the figure, or otherwise, evaluate the integral. 3. Find the area included between the curve  $y = \sqrt{x}$ , the axis of  $x$ , and the ordinates at  $x = 1$  and  $x = 100$ .  $xx + 4$ . Find the area of the loop of the curve  $y^2 = x(x-1)^2$ . 5. Draw a rough sketch showing the shape and peculiarities of the curve  $y = \frac{1}{x}$  from  $x = -\infty$  to  $x = +\infty$ , and find by integration the area bounded by the curve and the axis of  $x$  from  $x = 0$  to  $x = \infty$ . Do the same for the curve  $y = \frac{1}{x^2}$  finding the area between limits  $x = -Q_0$  and  $x = +x$ . 6.  $O$  is the origin and  $P$  is any point on the curve whose equation is  $ay^2 = x^3$ . Show that the area between the curve  $OP$  and the tangents at  $O$  and  $P$  is  $\frac{1}{2}$  of the area between the curve and the chord  $OP$ . 7. Show that the area contained between the axis of  $x$ , the curve  $y = a + bx + cx^2$ , and two ordinates  $y_1, y_2$  is equal to  $\frac{1}{3}(y_2^3 - y_1^3) + \frac{2}{3}(y_2^2 - y_1^2)$ . where  $2h$  is the difference of their abscissae, and  $y_0$  is the ordinate

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