



INTEGRALS (Continued)

- 591.
- 592.
- 593.
- 594.
- 595.
- 596.

**DEFINITE INTEGRALS**

- 597.
- 598.
- 599.
- 600.
- 601. is finite if
- 602.
- 603. if
- 604.
- 605.
- 606.

**DEFINITE INTEGRALS (Continued)**

607.

608. , where  $m$  and  $n$  are any positive real numbers.

609.

610.

611.

612.

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614.

615.

616.

617. , if  $> 0$ ; if  $< 0$ ; if  $= 0$ ; if  $> 0$ ; if  $< 0$ ; if  $= 0$

618.

619.

**DEFINITE INTEGRALS (Continued)**

**620.**

**621.** , if ; 0, if ;

**622.**

**623.**

**624.**

**625.**

**626.** , if is odd, or 0 if is even

**627.** , if or ; , if ; , if

**628.**

**629.**

**630.**

**DEFINITE INTEGRALS (Continued)**

- 631.
- 632.
- 633.
- 634.
- 635.
- 636.
- 637.
- 638.
- 639.
- 640. (a) (b)
- 641.
- 642.
- 643.
- 644.
- 645.
- 646.
- 647.

**DEFINITE INTEGRALS (Continued)**

648.

649. ,  $m$  and  $n$  positive integers

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656.

657. The area enclosed by a curve defined through the equation where ,  $c$  a positive odd integer and  $b$  a positive even integer is given by

658. , where  $R$  denotes the region of space bounded by the co-ordinate planes and that portion of the surface , which lies in the first octant, and where , denote positive real numbers is given by

**DEFINITE INTEGRALS (Continued)**

**659.**

**660.**

**661.**

**662.**

**663.**

663a. Error Function

663b. Complimentary Error Function

**664.**

**665.**

**666.**

**667.**

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**669.**

**670.**

**DEFINITE INTEGRALS (Continued)**

- 671.
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- 685.
- 686.
- 687.
- 688.

**DEFINITE INTEGRALS (Continued)**

689.

690.

If replace by .

691.

692.

693.

694.

695.

696.

697.

698.

699.

700.

701.

702. , (same as integral 686)

703.

704.

705.

**DEFINITE INTEGRALS (Continued)**

706.

707.

708.

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711.

712.

713.

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715.

716.

717.

718.

719.

719a.

## DEFINITE INTEGRALS (Continued)

720.

721.

722.

723. [Euler's Constant]

724.

For  $n$  even:

725.

726.

For  $n$  odd:

727.

728.