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DEFINITE INTEGRALS

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

DEFINITE INTEGRALS (Continued)

- 607.
- 608. , where m and n are any positive real numbers.
- 609.
- 610.
- 611.
- 612.
- 613.
- 614.
- 615.
- 616.
- 617. , if $x > 0$; if $x < 0$; if $x = 0$
- 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
- 650.
- 651.
- 652.
- 653.
- 654.
- 655.
- 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.****668.****669.****670.**

DEFINITE INTEGRALS (Continued)

671.
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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.

- 706.
- 707.
- 708.
- 709.
- 710.
- 711.
- 712.
- 713.
- 714.
- 715.
- 716.
- 717.
- 718.
- 719.
- 719a.

720.
721.
722.
723. [Euler’s Constant]
724.

For n even:
725.
726.

For n odd:
727.
728.