

Answer. The area from $x = 0$ to $x = 1$ is given by

$$A_1^1 = \int_0^1 y \, dx = \int_0^1 e^{-x^2} \, dx.$$

To evaluate this integral, we compare it with one standard form and see that it is almost, but not exactly, like

$$\int x^2 \, dx = x^3/3 + C.$$

To bring it into precisely this form, we let

$$u = -x^2, \quad du = -2x \, dx$$

so that

$$dx = -du/2x$$

so that

$$\int e^{x^2} \, dx = \int e^{x^2} (-du/2x) = -\frac{1}{2} \int e^u \, du = -\frac{1}{2} e^u + C = -\frac{1}{2} e^{-x^2} + C.$$

Therefore

$$A_1^1 = -\frac{1}{2} e^{-x^2} \Big|_0^1 = -\frac{1}{2} e^{-1} + \frac{1}{2} = \frac{1}{2} (1 - e^{-1}).$$

From this we see that the number of square units of area in the shaded region of Fig. 4-12 is somewhat less than unity, for 1 is large and positive, and hence

$$\lim_{b \rightarrow \infty} A_1^b = \lim_{b \rightarrow \infty} (1 - e^{-b^2}) = 1.$$

more (see Fig. (12) below).

$$\lim_{b \rightarrow \infty} e^{-b^2} = \lim_{b \rightarrow \infty} \frac{1}{e^{b^2}} = 0.$$

Some properties of the function

$$y = e^x$$

are worthy of additional comment.

In the first place, the exponential function satisfies the law

$$e^{x_1} \cdot e^{x_2} = e^{x_1 + x_2}.$$

For, if

$$y_1 = e^{x_1} \quad \text{and} \quad y_2 = e^{x_2}$$

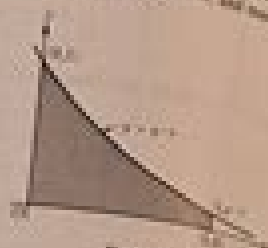


FIGURE 4-12

if

then, by definition,

$$y_1 = \ln x_1 \quad \text{and} \quad y_2 = \ln x_2.$$

so that

$$y_1 + y_2 = \ln x_1 + \ln x_2 = \ln x_1 x_2$$

by Eq. (1), Article 4-6. Therefore, by definition,

$$y_{1+2} = e^{y_1 + y_2}.$$

which establishes Eq. (10).

Again, we have

$$e^{-x} = 1/e^x \quad (11)$$

for any real number x . For, if

$$y = e^{-x}$$

then, by definition,

$$-x = \ln y$$

or, from Eq. (9), Article 4-6,

$$x = -\ln y = \ln (1/y).$$

Hence, by definition,

$$1/y = e^x \quad \text{or} \quad y = 1/e^x,$$

which establishes Eq. (11).

Powers of e are tabulated in many mathematical tables, such as Bartogon's. They may also be read directly from the LL-scales of a log-log slide rule. For example, if the number x on the D-scale in Fig. 4-14 is $x = 2$, then the corresponding readings on the LL-scales are

$$e^2 = 7.4 \quad \text{on LL 3,}$$

$$e^{2/2} = 1.3513 \quad \text{on LL 2,}$$

$$e^{2/10} = 1.0202 \quad \text{on LL 1.}$$

The value of e^{-x} can be read from the

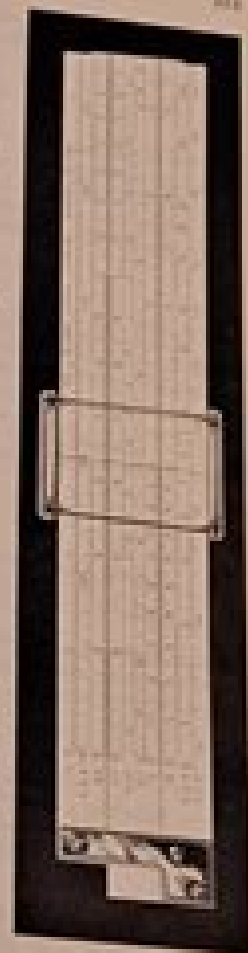


FIGURE 4-14

Analytic Geometry And The Calculus

Ying Liu



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web dec 1 2021 compressive damage variable this parameter is used to define the compression hardening data for the concrete damaged plasticity material model and it can be used to specify the compressive stiffness degradation in the study of ref 26 compressive damage variable d_c is assumed that damage initiates only after the

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web jul 1 2020 by combining isotropic damage elasticity and isotropic tensile and compressive plasticity it can model nonlinear deformation and irreversible damage in plain concrete materials applied to different types of structures under different load conditions 15 22 23 inspired by this approach many researchers investigated the failures of concrete