

**FIGURE 28.4.** The exponential function  $e^x$  has a slope equal to its value. In other words, it satisfies the differential equation dn/dx = n. This is illustrated in the graph, which shows slopes of 1, 2, 4 when  $e^x = 1$ , 2, 4, respectively. The *shaded triangles* illustrate the gradients at points where  $e^x = 1$ , 2, 4. Recall that the slope dn/dx is the ratio between the vertical and horizontal edges of the triangles.

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