

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

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