

**Example 1.** Solve

$$5e^{2x} = 7.$$

**Example 2.** We return to the model of Loyola University Maryland's tuition presented in Example 1 in Section 1.5. The tuition was \$36,510 in fall 2009 and has grown at an annual rate 3.47%.

Using natural logs, find when the tuition is predicted to be \$53,000.