Solve: $\ln x - \ln 5 = 0$

Solve: $\ln x = -7$

 e^{-7}

Solve: $\ln x = -1$

≈ 0.368

Solve: $\log_{x} 16 = 2$

Solve: $\log x = -1$

Solve:
$$ln(2x+1)=5$$

$$\frac{e^5-1}{2} \approx 73.7066$$

Solve:
$$\ln x = -2$$

≈ 0.135

Solve:
$$-2+2\ln(3x)=17$$

≈ 4453.242

Solve:
$$\log(z-3)=2$$

Solve: $\ln \sqrt{x+2} = 1$

≈ 5.389

Solve: $\log_4 x - \log_4 (x - 1) = \frac{1}{2}$

Solve:
$$\ln \sqrt{x-8} = 5$$

$$\approx$$
 22,034.466

Solve:
$$\frac{1-\ln x}{x^2} = 0$$

$e \approx 2.7183$

The numbers y of hospitals in the United States from 1995 to 2003 can be modeled by $y = 7247 - 596.5 \ln t$, $5 \le t \le 13$, where t represents the year, with t = 5 corresponding to 1995. During which year did the number of hospitals fall to 5800?