

Answer Key

Practice C

- $\ln 2 + \ln 3 \approx 1.792$
- $\ln 2 + \ln 5 - \ln 3 \approx 1.203$
- $\ln 2 + \ln 3 + \ln 5 \approx 3.401$
- $2 \ln 2 + \ln 3 \approx 2.485$
- $\ln 2 - \ln 5 \approx -0.916$
- $\ln 5 - \ln 3 - \ln 2 \approx -0.183$
- $\log 8 + \log x$
- $\log_3 x + \log_3 y + \log_3 z$
- $\frac{1}{2} + \log_4 x + \log_4 y - \log_4 z$
- $\ln x - \ln y - \ln z$
- $\frac{1}{2}(\log 3 + \log x + \log y)$
- $\frac{1}{2} \log_5 x - \log_5 y$
- $\ln 3 + \ln y - \frac{1}{4} \ln x$
- $3(\log 3 + \log x + \log y + 2 \log z)$
- $4(\log_2 x + \log_2 y) - 2 \log_2 z$
- $\log \frac{3}{28}$
- $\ln \frac{3xz}{y}$
- $\ln \frac{x^3}{y^2z^4}$
- $\log_2 \frac{(x-4)(x+1)^5}{(x-1)^3}$
- $\log_2 \frac{\sqrt{x+5}}{x^2} + \ln y$
- $\ln \left[\frac{(x-2)(x+1)^2}{(x+2)(x-1)^5} \right]^3$
- $y = \frac{\log x}{\log 3}$ or $y = \frac{\ln x}{\ln 3}$
- $y = \frac{\log(x+3)}{\log 6}$ or $y = \frac{\ln(x+3)}{\ln 6}$
- $y = \frac{\log(x-1)}{\log 2} + 3$ or $y = \frac{\ln(x-1)}{\ln 2} + 3$
- $t = \frac{\ln(Sr + Pn) - \ln P - \ln n}{n(\ln(n+r) - \ln n)}$
- ≈ 19.7 years