MA 126 — Spring 2017 — Prof. Clontz — Readiness Quizzes

- Which of these is a definition of $a^x$ for all positive numbers $a$ and all real numbers $x$? (2017-01-11 — practice)
  - A. $\ln(x \cdot e^a)$
  - B. $a$ multiplied by itself $x$ times
  - C. the unique function for which $\frac{d}{dx}[a^x] = a^x$
  - D. $\exp(x \ln a)$
- Which of these statements is false? (2017-01-11 — practice)
  - A. $\ln(abc) = \ln(a) + \ln(b) + \ln(c)$
  - B. $\frac{d}{dx}[\ln x] = \frac{1}{|x|}$ for all nonzero numbers $x$
  - C. $y = \exp(x)$ if and only if $x = \ln(y)$
  - D. $e^x = \exp(x)$