Trig/Precalculus
SLOT
Practice with *e*

Using a calculator, evaluate each of the following expressions. Round to the 4th decimal place when necessary.

1. e^3 **2.** e^6 **3.** e^{-2} **4.** e^0 **5.** $e^{\frac{5}{2}}$ **6.** e^e

Interest that is compounded *continuously* is given by the formula $A = Pe^{rt}$, where P is the principal (how much you put into savings), A is the ending amount/value of the account, r is the interest rate, and t is the time (in years) the money accrues interest. Find the value of the account given the following conditions. Be sure to change the rate to a decimal. Round to the nearest penny.

7. Principal: $2000, annual interest rate: 5.1%, time: 3 years

8. Principal: $400, annual interest rate: 7.6%, time: 1.5 years

9. Principal: $950, annual interest rate: 6.5%, time: 10 years

10. Principal: $10000, annual interest rate: 3.6%, time: 6 months*