

NOTES SECTION 8.3: THE NUMBER e

e

EXAMPLE 1

Simplify the expression

a)

b)

c)

EXAMPLE 2

Use a calculator to evaluate the expression.

a)

b)

NATURAL BASE EXPONENTIAL FUNCTION

EXAMPLE 3

Graph the function. State the domain, range, and asymptote.

a)

b)

CONTINUOUSLY COMPOUNDED INTEREST**EXAMPLE 4**

You deposit \$1500 in an account that pays _____ annual interest compounded continuously.
What is the balance after one year?