Natural Logarithms

Name:

Date:

Solve each equation for x.

1) $e^x = 3$

2) $e^x = 5$

3) $e^x = 7$

4) $ln\, x = 8$

5) $ln\ (ln\, x) = 8$

6) $ln(x + 3) = 7$

7) $ln(2x + 2) = 4$

8) $ln\, x = 2\, ln\, 4 + ln\, 7$

Evaluate without using a calculator.

9) $ln\, 1 =$

10) $ln\, e^3 =$

11) $3\, ln\, e^2 =$

12) $5\, ln\, e =$

13) $e^{ln\frac{5}{e}} =$

14) $e^{ln\, 5} =$

testinar.com/qryn

QUIZ ?

So Much More Online! Please visit: testinar.com

MORE ?

testinar.com/qryo

Natural Logarithms

Name:

Date:

Answers

Solve each equation for x.

1) $e^x = 3$
$x = ln\,3$

2) $e^x = 5$
$x = ln\,5$

3) $e^x = 7$
$x = ln\,7$

4) $ln\,x = 8$
$x = e^8$

5) $ln\ (ln\,x) = 8$
$x = e^{e^8}$

6) $ln(x + 3) = 7$
$x = e^7 - 3$

7) $ln(2x + 2) = 4$
$x = \frac{e^4 - 2}{2}$

8) $ln\,x = 2\,ln\,4 + ln\,7$
$x = 112$

Evaluate without using a calculator.

9) $ln\,1 = 0$

10) $ln\,e^3 = 3$

11) $3\,ln\,e^2 = 6$

12) $5\,ln\,e = 5$

13) $e^{ln\frac{5}{e}} = \frac{5}{e}$

14) $e^{ln\,5} = 5$