WARM UP

Solve:

1) $\log_3 (2x-1) = 5$

2) $3e^x + 2 = 13$

3) $\log_4 7 = x$

Math Basketball
Review Ch. 8
Logs and Exponents
Algebra II

A parent invests money into a child's bank account which earns 12% each year. If the account now has $350, how many years will it take to reach $1800?

Sove for x. Round to two decimal places.

$$2e^{3x-2} = 84$$

Use the properties of logs to evaluate each:

$\log_3 \frac{1}{9}$ $\log 10^4$

$\log_e e$ $\log_{36} 6$

$\ln 1$

Solve the equation for x. Round to two decimal places.

$$8 + 3^x = 15$$

You put $2000 into an account for 8 years with interest compounded continuously. Now you have $3500. What was the interest rate of your investment?

Expand the logarithm.

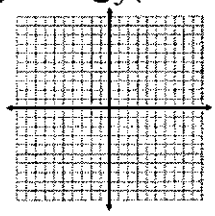
$$\log_4 \frac{5\sqrt{x}}{y^3}$$

Write as a single logarithm.

$$2\ln z - \frac{1}{2}(\ln x + 3\ln y)$$

Sketch the graph and asymptote. State the equation of the asymptote, the domain and range.

$$y = \log_3(x+5)$$



State the domain and range of:

$$y = 2(3)^x - 4$$

Solve for x.

$$\ln\ (3x+4) = 5$$

Rewrite as a log.

$$5^{-3} = \frac{1}{125}$$

State the percent of increase or decrease.

$$y = 5.3(1.032)^x$$

$$y = 7.2(0.27)^x$$

EXTRA REVIEW HOMEWORK - Part 2
p. 850 #38-48 EVEN, 45, 49, 51, 54, 56, 58, 60, 64, 66, 67

HW due Tuesday
p. 479 #5-9 all,
14,15,18-21, 23,
25, 27, 33, 35,
36-39 all