2.13A Exponential and Logarithmic Equations and Inequalities

AP Precalculus

Name:

CA #2

CALCULATOR ACTIVE: Instructions: Solve each equation. Have exact answer and answer rounded to nearest thousandth.

1)
$$log_7(2x - 5) = 2$$

$$2) \ 5(2^{3x}) - 4 = 46$$

3)
$$\log(x-3) - \log(x-4) = \log(5)$$

4)
$$\frac{1}{2}e^{x-4} = 14$$

5)
$$log_6(5) + log_6(2x - 4) = log_6(5x + 15)$$

$$6) \ 12 - \log_2(x+9) = 14$$

CALCULATOR ACTIVE: Instructions: Solve each equation with a graphing calculator. Round to nearest thousandth.

nearest thousandth.

7)
$$\frac{4}{5}(4^{2x-5}) - 4 = 20$$

- 1) 27
- 1) $\frac{27}{10g_2 \cdot 10}$ ≈ 1.107 3) $\frac{17}{4}$ 4) $\ln 28 + 4 \approx 0.7332$ 5) 7

- 6) -8.75 7) 3.727

