Algebra 2   Name_____

Extra Practice

Solve each equation. Round your answers to the nearest ten-thousandth.

1) $11^{4-10r} + 4 = 9$

2) $19^{9-3x} - 6 = 59.9$

3) $-2^{9x-7} = -42$

4) $3^{6n+8} + 5 = 38$

5) $17^{6-4n} - 1.7 = 82$

Solve each equation.

6) $\log_5 (x-5) - \log_5 (x+1) = 4$

7) $\log_9 (-2x-1) - \log_9 2 = 1$

8) $\log_8 (-x-5) - \log_8 4 = \log_8 44$

9) $\log_5 (3-4x^2) + \log_5 8 = \log_5 6$

10) $\log_4 10 - \log_4 (3x-2) = 4$

Answers to Extra Practice

1) 0.3329

2) 2.5259

3) 1.3769

4) −0.8029

5) 1.1093

6) No solution.

7) $\left\{-\dfrac{19}{2}\right\}$

8) $\{-181\}$

9) $\left\{\dfrac{3}{4}, -\dfrac{3}{4}\right\}$

10) $\left\{\dfrac{87}{128}\right\}$