Solving Exponential Equations Practice Problems © 2016 Kuta Software LLC. All rights reserved.

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

1)
$$-7 \cdot 14^{10x} = -33$$

2)
$$2 \cdot 3^{x-3} = 99$$

3)
$$8 \cdot 10^{p-6} = 60$$

4)
$$16^{a+1} + 5 = 54$$

$$5) \ 20^{x+7} + 3 = 53$$

6)
$$4^{-x} = \frac{1}{16}$$

7)
$$5^{-p} = 1$$

$$8) \left(\frac{1}{36}\right)^{-3\nu} = \frac{1}{216}$$

9)
$$4^{3a} = 4^{a-1}$$

10)
$$8^{-3n} = 64$$

1) 0.0588

5) -5.6941

2) 6.5517

6) {2}

3) 6.8751 7) {0}

4) 0.4037