

9.6 Corrective Assignment - Solve Exp. and Log Equations

Period ____

Solve each equation by getting the same bases and equating exponents.

1) $8^{x-1} = \frac{1}{16}$

2) $36^{-n-2} = 216$

Solve each equation. Round your answers to three decimal places.

3) $8 \log_{11} b = 8$

4) $-4 \log_6 (v + 1) = 4$

5) $-6 + 10 \log_2 3x = 24$

6) $20^{x-7} = 38$

7) $10^{a-1} - 10 = 22$

8) $-6 \cdot 7^{-9k} = -24$

9) $5 \cdot 14^{8x+6} - 7 = 54$

10) $5 \cdot 5^{-4p-10} + 1 = 96$

Answers to 9.6 Corrective Assignment - Solve Exp. and Log Equations (ID: 2)

1) $\left\{-\frac{1}{3}\right\}$

2) $\left\{-\frac{7}{2}\right\}$

3) $\{11\}$

4) $\{-0.8333\}$

5) $\{2.6667\}$

6) 8.2143

7) 2.5051

8) -0.0792

9) -0.6315

10) -2.9574