

Name _____

Date _____

Solving Exponential Equations - Independent Practice Worksheet

Complete all the problems.

1. Solve the exponential equation: $6^{x-3} = 216^{x-3}$

2. Solve the exponential equation: $7^{x-4} = 2401^{x-4}$

3. Solve the exponential equation: $8^{x-3} = 512^{x-3}$

4. Solve the exponential equation: $9^{x-5} = 59049^{x-5}$

5. Solve the exponential equation: $10^{x-2} = 100^{x-2}$

6. Solve the exponential equation: $3^{4x+3} = 1/243$

7. Solve the exponential equation: $4^{4x+8} = 1/256$

8. Solve the exponential equation: $5^{2x+4} = 1/625$

9. Solve the exponential equation: $6^{5x+2} = 1/216$

10. Solve the exponential equation: $8^{6x+6} = 1/512$

