

Solve the Exponential Equation.

1. $5^{3-2x} = 5^{-x}$	2. $3^{2a} = 3^{-a}$
3. $4^{2p} = 4^{-2p-1}$	4. $6^{-2x} = 6^{2-3x}$
5. $8^{x-1} = 2^{x+2}$	6. $144^{2x+1} = 12^{5x-1}$
7. $5^{3x+1} = 25^{x+1}$	8. $4^{-x+1} = 2^{2x}$
9. $64^a = 8^{a+2}$	10. $2^{m+1} = 16^{m+7}$

$$11. 36^{2x} = 216^{x-1}$$

$$12. 3^{a-7} = 27^{2a}$$

$$13. \left(\frac{1}{3}\right)^{x+2} = 3^{x-1}$$

$$14. \left(\frac{1}{2}\right)^x = 2^{x+3}$$

$$15. 8^{x-1} = 2^{x+2}$$

$$16. 8^{5x} = 16^{3x+4}$$

$$17. 81^{2x+1} = 9^{5x-1}$$

$$18. 16^{x+1} = 4^{4x+1}$$