Symbolab

# Exponential Equations

## Different Bases

1. $4^{x+1} = \frac{1}{64}$

2. $4^{7-3x} = \frac{1}{16}$

3. $3^{6-3x} = \frac{1}{27}$

4. $2^{3x+5} = \frac{1}{16}$

5. $2^{7-3x} = \frac{1}{4}$

6. $5^{2-x} = \frac{1}{25}$

7. $2^{x+2} = \frac{1}{8}$

8. $\frac{1}{16} = 2^{-2x-6}$

9. $3^{1-x} = \frac{1}{27}$

10. $2^{1-x^2} = \frac{1}{8}$

Symbolab

# Answers

## Exponential Equations

### Different Bases

1. $x = -4$

2. $x = 3$

3. $x = 3$

4. $x = -3$

5. $x = 3$

6. $x = 4$

7. $x = -5$

8. $x = -1$

9. $x = 4$

10. $x = 2, x = -2$