

Math 3 Advanced
16.2 Solve Exponential Equation

Solve.

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

2. $2^{-x} = 128$

3. $16^{2-s^2} = \frac{1}{2}$

4. $64^{x-4} = \left(\frac{1}{2}\right)^{2x}$

5. $3^x(3^{x+1}) = 9$

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

7. $3^{2x} = 81$

8. $8^{4+3x} = \frac{1}{4}$

9. $\left(\frac{1}{4}\right)^y = 32^{y+1}$

10. $8(2^{x-1}) = 64$

Answer List

- | | |
|--------------------------|------------------------|
| 1. $x = -4$ | 2. $x = -7$ |
| 3. $s = \pm \frac{3}{2}$ | 4. $x = 3$ |
| 5. $x = \frac{1}{2}$ | 6. $x = -3$ |
| 7. $x = 2$ | 8. $x = -\frac{14}{9}$ |
| 9. $y = -\frac{5}{7}$ | 10. $x = 4$ |

Catalog List

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|--------------|---------------|--------------|--------------|
| 1. TRI KF 5 | 2. TRI KF 9 | 3. TRI KF 17 | 4. TRI KF 25 |
| 5. TRI KF 29 | 6. TRI KF 6 | 7. TRI KF 10 | 8. TRI KF 18 |
| 9. TRI KF 26 | 10. TRI KF 30 | | |