Study the following.

negative exponents – negative exponents are a way to write 1 over a number to an exponent. Example: 4^{-3} is a way to write $1/4^3$

First write 1 over the number to the positive exponent. Then solve.

$3^{-2} = 1/3^2 = 1/9$

$10^{-3} = \frac{1}{10^3} = \frac{1}{1000}$

Write as a positive exponent, then solve.

1. 2^{-3} =

2. 4^{-1} =

3. 10^{-2} =

4. 2^{-4} =

5. 8^{-2} =

6. 10^{-3} =

7. 3^{-3} =

8. 4^{-2} =

9. 10^{-4} =

10. 1^{-5} =

Fill in the blank.

What is a negative exponent?

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