

1. Circle all expressions below that are equivalent to 7^{-2} . Show or explain how you determined this.

$$\frac{1}{7^2}$$

$(7)^2$

$(-7)^2$

$-(7)^2$

-49

$\frac{1}{49}$

$\frac{1}{7^2}$

$-\frac{1}{49}$

$\frac{1}{7^{-2}}$

2. Circle all expressions below that are equivalent to $\frac{1}{2^{-5}}$. Show or explain how you determined this.

$-\frac{1}{10}$

$-\frac{1}{32}$

-32

32

2^5

-2^5

-10

3. Briefly explain the difference between $-b$ and b^{-1} .

The whole number is negative while only the exponent is negative in the second one.