

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

x

x

$$7 \times -2 = -14$$

$(7)^2$

$(-7)^2$

$- (7)^2$

~~49~~

~~$\frac{1}{49}$~~

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

~~$\frac{1}{49}$~~

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

x

x

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

$\frac{1}{2^{-5}}$

x

~~$\frac{1}{10}$~~

~~$\frac{1}{32}$~~

~~32~~

~~32~~

~~2^5~~

-2^5

x

-10

x

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

$-b$ is the negative number but when it's like this $-b$ the whole thing is negative

b^{-1} is only the integer, it can't make the whole number negative