

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

$(7)^2$ $(-7)^2$ $-(7)^2$ -49

$\frac{1}{49}$

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

$-\frac{1}{49}$

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

Put it were its not.

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

X

32

2^5

-2^5

-10

X

X

X

$-2 \times 5 = -10$

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

$-b$ the whole number is negative
 b^{-1} only the exponent is negative