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

$\frac{1}{49}$ $\frac{1}{7^2}$ $-\frac{1}{49}$ $\frac{1}{7^{-2}}$

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 difference between -b and b^{-1} is tha

-b = -# (a negative number) $b^{-1} = \frac{1}{b}$