Laws of Exponents Skills Quiz Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1, Evaluate: $3^{-2}\left(3^{1}+3^{0}\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2, Arrange in increasing value: $2^{-1},4^{0},3^{-4},\frac{1}{5^{-2}}$

3, Simplify, then evaluate if u=2, v=3. $(u^{-3}v^{5})(\frac{9u^{-3}v^{2}}{3u^{6}v^{-8}})$

4, Evaluate $\frac{2^{-5}}{2^{-2}+2^{-3}}$

5, State the value of the expression $a^{b}-b^{a}+b^{b}$, if a=3 and b=-2.

6, Evaluate:

1. $-2^{0}$=\_\_\_\_\_\_\_\_\_ b) $-2^{-4}$=\_\_\_\_\_\_\_\_\_\_ c)$(\frac{2}{3})^{-5}$=\_\_\_\_\_\_\_\_\_\_\_\_ d)$2^{-3}$=\_\_\_\_\_\_\_\_\_\_\_