Name: ____ Period: __________ Date: _______________

Properties of Logarithms Bell Work

1. **Convert the expression $\log_2 1024 = 10$ to Exponential form:**

   a. $10^2 = 1024$
   b. $2^{10} = 1024$
   c. $\log 1024 = 2$
   d. None of these.

2. **Convert the expression $5^{-2} = \frac{1}{25}$ to Logarithmic form:**

   a. $\log_5 \frac{1}{25} = -2$
   b. $\log_2 5 = 25$
   c. $\log_5 \frac{1}{25} = 2$
   d. $\log_{25} 5 = -2$

3. **The Natural Logarithms are:**

   a. Logarithms that have a base of 2
   b. Logarithms that have a base of e
   c. Logarithms that have a base of 10
   d. Logarithms that have a base of π

4. **Evaluate logarithm $\log_{\frac{1}{2}} 4$:**

   a. 2
   b. $\frac{1}{2}$
   c. $\sqrt{2}$
   d. –2

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Answers:

1. b. $2^{10} = 1024$
2. a. $\log_5 \frac{1}{25} = -2$
3. b. Logarithms that have a base of e
4. d. –2