Name: _____

F.LE.A.4: Express Exponentials as Logarithms

1 If $\log_b x = y$, then x equals
1) $y \cdot b$
2) $\frac{y}{b}$
3) y^b
4) b^y

2 The equation $\log_a x = y$ where $x > 0$ and $a > 1$ is equivalent to
1) $x^y = a$
2) $y^a = x$
3) $a^y = x$
4) $a^x = y$

3 The function $y = 2^x$ is equivalent to
1) $x = y \log 2$
2) $x = \log_2 y$
3) $y = x \log 2$
4) $y = \log_2 x$

4 Given $p \neq q, p = \left(\frac{1}{2}\right)^q$, expressed in logarithmic form, is equivalent to
1) $\log_p\left(\frac{1}{2}\right) = q$
2) $\log_q(p) = \frac{1}{2}$
3) $\log_{\frac{1}{2}}(p) = q$
4) $\log_{\frac{1}{2}}(q) = p$

F.LE.A.4: Express Exponentials as Logarithms
Answer Section

1	ANS: 4	REF: 060409b
2	ANS: 3	REF: 011503a2
3	ANS: 2	REF: 080607b
4	ANS: 3	REF: 012404aii