Logarithms

Q. what power of 2 is
$$|6?| = 4$$
 $3^4 = 0$
 $2^4 = |6| \iff 4 = |\log_2 |6|$

Q. what power of a is b ? = C

Det. $a = b \implies c = |aab| = a^{70}, b>0$
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 $a = b \implies c = |aab| = a^{70}, b>0$
 $a = b \implies c = |aab| = a^{70}, b>0$
 $a = a \implies a = a$
 $a = a \implies a$

Ex:
$$\log_{a}(b^{c}) = x \iff (ax)^{\frac{1}{2}}(b^{c})^{\frac{1}{2}}$$

$$\log_{a}b = x \iff (ax)^{\frac{1}{2}}(b^{c})$$

$$\log_{a}b = x \iff \log_{a}(b^{c})$$

$$\log_{a}b = x \iff \log_{a}(b^{c})$$

$$\log_{a}(b^{c}) = \log_{a}b \iff \log_{a}(b) = \frac{1}{2}\log_{a}b$$

$$\log_{a}(b^{c}) = x \iff a^{x} = bc$$

$$\log_{a}b = x \iff a^{x} = a^{x+2} = bc$$

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$$\log_{a}b = \log_{a}b + \log_{a}c$$

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