Quiz today:

* 3:30 - 4:45

in Moore Hall Filene Aud.

* 6:30-7:45 in Kemeny 008

Today: Exponential and logarithmic functions.

Correction

Recall.

$$a^r = (\sqrt[m]{a})^m$$
 if $r = \frac{m}{n}$

ex

$$2 \cdot 2 \cdot 2 = 2^3$$
 $\sqrt{2} = 2^{1/2}$

Basics:

$$2^{2} \cdot 2^{3} = (2 \cdot 2) \cdot (2 \cdot 2 \cdot 2)$$

$$= 2^{5}$$

$$(2^2)^3 = (2.2) \cdot (2.2) \cdot (2.2)$$

= 26

$$(a^b)^c = a^{b \cdot c}$$

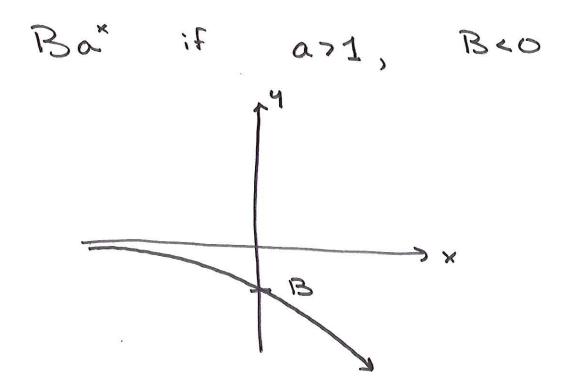
we know what ax means for O X is a pos int (2) × is a fraction

1 pos

nom: denom 3 x is any fraction Fill in gaps to get ax for all reals

ex (-2) x
anywha
if Missing 0 40 (-2)x -2 4 -8 undef X 1 2 3 n is even 1/2 0 0* × 1 0) | 35.5 0 35.5 112 0

Bax if a>1, B>0



$$f(z_{-1}(x)) = x$$

anel

