

Bell Work

2/9/2015

Grab an assignment and complete

numbers 1, 2, 3, & 4

(You may want to use your calculator)

Evaluate each function at the given value.

1)  $f(x) = \frac{1}{3} \cdot 6^x$  at  $x = 2$

$$f(2) = \frac{1}{3} \cdot 6^2$$

$$= \frac{1}{3} \cdot 36$$

$$f(2) = 12$$

3)  $f(n) = 10 \cdot 2^n$  at  $n = -2$

$$f(-2) = 10 \cdot 2^{-2}$$

$$= 10 \cdot \frac{1}{2^2}$$

$$= 10 \cdot \frac{1}{4}$$

$$= \frac{10}{4}$$

$$f(-2) = 2.5$$

2)  $f(n) = 10 \cdot 2^n$  at  $n = 5$

$$f(5) = 10 \cdot 2^5$$

$$= 10 \cdot 32$$

$$f(5) = 320$$

4)  $g(x) = \frac{1}{5} \cdot \left(\frac{1}{3}\right)^x$  at  $x = 3$

$$\left(\frac{1}{5}\right) \left(\frac{1}{3}\right)^3$$

$$= .007407\dots$$

## Properties of Exponents Quiz

If you did not take this, you will be taking it today.

For those that have already taken it and wish to earn more points back, you may do a quiz re-work.

## Quiz Re-Work

On a quiz re-work, you have the opportunity to earn back half of the points that you lost. So if you missed 10 points on a quiz, you can earn back 5 of those points if you complete the following:

To earn back points on your quiz, follow these guidelines:

- Each question that was incorrect or partially incorrect must be done correctly on a separate sheet of paper.
- **For each question completed, you must write 1-2 sentences explaining what you did incorrectly and what you now understand about the topic. Simply stating that I know how to do this or that is not acceptable. You must write about what you specifically know. Explain to me how you know how to solve the problem.**
- You may use the teacher as a resource or other students, but the corrected problem and write up must be completed by you.
- You must **turn in your original quiz** with your re-work!