## Review

October-30-13 12:36 PM

used 2009-3

Express in fraction or radial form then evaluate.

Simplify. Express answers with positive exponents.

- a.  $[(2a^2)^{(3-p)}](\frac{2}{a})^p$
- b.  $\left(\frac{(x^{18})^{\frac{-1}{6}}}{\frac{5}{72A2x^{10}}}\right)^2$

3.) 
$$g(x) = 4 - 2\left(\frac{1}{3}\right)^{0.5x+1}$$

- @ State parent and transformations & Rewrite so that there is no K or d in the equation
  - (c) State new parent and transformation
  - d) Sketch using () Latel HA and y-int

Determine an equation for the following.

x	y
7	216
14	180
21	150
28	125
35	104.16

HA 4=0

The temperature of a cup of hot coffee decreases by 30% every 15 minutes. What is the temperature of 69°C cup of coffee after 1 hour?

A ball fell from a shelf 200 cm above the ground. It bounced to a height of two-fifths its previous height. It continued to bounce to a height two-fifths of its previous height. How many bounces will be required to reach a bounce less than 1 cm?

Show how  $\sqrt{5}\sqrt{5\sqrt{5}}$  can be written as a single power of 5.

$$(5)(5)^{x+2} = 25^{2x}$$

- $\bigcirc 3^{(x+3)} 3^x = 78$