ACT. #22 EXPLORING LOGARITHMS

1)Name 4 careers that use logarithms. Write 1 sentence about how the logarithms are used in each career.

2) In your own words, explain the difference between logarithmic form and exponential form. Write an example of each.

3) Write down a word problem (real life problem) which requires logarithms to solve. You do not have to solve it. You may find it on the internet.

4) How are logarithms used mathematically? In other words, what are their main purpose or how do they help us with mathematical computations?

Solve the following. REMEMBER to isolate the log portion of the problem before changing the form.

- (3) $3 \log_2(4x) + 10 = 16$
- 6 2 log3 (5x-1) = 4
- $0 = \log_3(2x) + 7$
- (8) $\log_5(3x) 1 = -4$
- $9 15 = -2 \log_6 (-3x) 11$
- 10 -4 log (2x-1) = -4