

Name: \_\_\_\_\_

This quiz covers: 4.4 and 4.5.

**Directions:** Complete all question and **show all applicable work.** Partial credit will be given. All questions are equally weighted.

1.) Write the following in expanded form:

$$\log_3 \frac{(x-1)^2}{(x+1)^5}$$

2.) Evaluate:  $\log_3 4$ .

3.) Solve for  $x$ :

$$\log_4(x^2 - 7x + 14) = 1$$