**Chapter 7 Mid-Chapter Practice Test** SCORE \_\_\_\_\_\_\_\_\_\_\_\_\_

*(Lessons 7-1 through 7-4)*

**Part I Write the letter for the correct answer in the blank at the right of each question*.***

** 1.** Find the domain and range of the function shown.

 **2.** Solve $4^{2x}$= $8^{x + 4}$.

 **3.** Write the equation $4^{3}$ = 64 in logarithmic form.

 **4.** Evaluate $log\_{4}32$.

 **5.** Solve $log\_{3}\left(7x-3\right)$ ≥ $log\_{3}\left(5x\right)$.

 **6.** Write the equation $5^{4}$ = 625 in logarithmic form.

 **7.** Write the equation $log\_{7}49$ = 2 in exponential form.

 **8.** Solve $log\_{5}\left(2x-1\right)$ > $log\_{5}\left(4x\right)$.

**Part II**

 **9.** Write an exponential function whose graph passes through (0, –5) and (–2, –20).

**10.** Write $log\_{\frac{1}{3}}p$= –3 in exponential form.

 **1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**