SCORE \_\_\_\_\_\_\_\_\_\_\_\_\_

*Combo Logs Review*

**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.

 **A** D = {*x* | *x* > 0}, R = {all real numbers}

 **B** D = {all real numbers}, R = {*y* | *y* < 0}

 **C** D = {all real numbers}, R = {*y* | *y* > 0}

 **D** D = {*x* | *x* > 0}, R = {*y* | *y* > 0}

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

 **F** 2 **G** 6 **H** 12 **J** 24

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

 **A** $log\_{3}4$ = 64 **C** $log\_{64}3$ = 4

 **B** $log\_{4}64$ = 3 **D** $log\_{4}3$ = 64

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

 **F** $\frac{5}{2}$ **G** 8 **H** 3 **J** $\frac{2}{5}$

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

 **A** $\left\{ x= \frac{3}{2}\right\}$ **B** $\left\{ x= \frac{3}{7}\right\}$ **C** { *x* = 0} **D** $\left\{ x= \frac{2}{3}\right\}$

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

 **F** $log\_{4}625$ = 5 **H** $log\_{5}625$ = 4

 **G** $log\_{4}5$ = 625 **J** $log\_{5}4$ = 625

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

 **A** $7^{2}$ = 49 **C** $49^{2}$ = 7

 **B** $49^{7}$ = 2 **D** $2^{7}$ = 49

**8.** Write $log\_{\frac{1}{5}}m$= –2 in exponential form.

9. Graph:  10. Graph: 

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

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

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

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

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

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

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

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

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

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