

Name _____

Date _____

Logarithmic Functions- Matching Worksheet

Write the letter of the answer that matches the problem.

- _____ 1. The statement $6 = \log_2 64$
- _____ 2. Exponential form of $5/2 = \log_6 88.2$
- _____ 3. Exponential form of $9 = \log_3 19683$
- _____ 4. Exponential form of $5 = \log_{10} 100000$
- _____ 5. Range of $y = \log_8 x + 4$
- _____ 6. Solution of $\log_4 16^7$
- _____ 7. The vertical asymptote of the function,
 $f(x) = 2\ln(|x|)$
- _____ 8. The vertical asymptote of the function,
 $f(x) = -3\ln(x - 4)$
- _____ 9. Exponential form of $9 = \log_1 1$
- _____ 10. Find the range of:
 $y = \log_9 x + 2$
- a. All Real Numbers
- b. 5
- c. $19683 = 3^9$
- d. $1 = 1^9$
- e. $64 = 2^6$
- f. $100000 = 10^5$
- g. ± 1
- h. $88.2 = 6^{2.5}$
- i. 14
- j. All Real Numbers

