Practice worksheet | Exponentials and logarithms

Logarithm laws

Name: _____ Date: _____

6 questions | 15 marks

1. Combine $\log a + \log b$ for a,b>0. [2 marks]

2. Expand $\log(100x^2/y)$ for x,y>0. [2 marks]

3. Combine $2\log x - \log y$ for x,y>0. [2 marks]

4. Solve $\log(x+4) - \log x = \log 3$. [3 marks]

5. Solve $\log x + \log(x-2) = \log 8$. [3 marks]

6. Compare $\log(1+9)$ with $\log 1 + \log 9$. Explain what this tests. [3 marks]