

Logarithms**Quotient Rule**

1. $\log_6(18) - \log_6(3)$

2. $\log_{10}(3) - \log_{10}(8)$

3. $\log_{10}(15) - \log_{10}(1.5)$

4. $\log_{10}\left(\frac{a}{10}\right)$

5. $\log_2\left(\frac{4}{x}\right)$

6. $\log_8\left(\frac{x}{8}\right)$

7. $\log_{10}(x^2 - 4) - \log_{10}(x - 2)$

8. $\log_{10}(12) - \log_{10}(4)$

9. $\log_3(5) - \log_3(10) - \log_3\left(\frac{1}{2}\right)$

10. $(\log_{10}(3) - \log_{10}(4)) - \log_{10}(2)$

Answers**Logarithms****Quotient Rule**

1. 1

2. $\log_{10}\left(\frac{3}{8}\right)$

3. 1

4. $\log_{10}(a) - 1$

5. $2 - \log_2(x)$

6. $\log_8(x) - 1$

7. $\log_{10}(x + 2)$

8. $\log_{10}(3)$

9. 0

10. $\log_{10}\left(\frac{3}{8}\right)$