Properties of Logarithms

Write the property of logarithms that each equation demonstrates.

1) $\log_6 24 - \log_6 12 = \log_6 2$

2) $5 \log_9 3 = \log_9 3^5$

3)

5)

7) Which property of logarithms does this equation demonstrate $\log_3 36 - \log_3 4 = \log_3 9$?

a) Power Property b) Quotient Property c) Product Property

8) Which property of logarithms does this equation demonstrate $\log_4 2 + \log_4 8 = \log_4 16$?

a) Product Property b) Power Property c) Quotient Property