

Name: _____

Date: _____

Learning Goal 8.1Solving exponential and logarithmic equations with same base and with different bases, including base e .**More Questions**

Power Law	Product Law	Quotient Law	Change of Base

1. Solve for x . State any restrictions on the variable and verify your answers.

a. $\log_7 x + \log_7 4 = \log_7 12$

b. $\log_2(x - 6) = 3 - \log_2(x - 4)$

c. $\log_3(x^2 - 8x)^5 = 10$

d. $\log_2(x + 3)^2 = 4$