Discrete Mathematics Logarithms - Change of Base

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$$Log_b(x) = rac{1}{Log_x(b)}$$
 $Log_b(x) = rac{Log_a(b)}{Log_a(b)}$

Example 1

$$log_3(x) + 3log_x(3) = 4$$

$$log_3(x) + 3\left(\frac{1}{log_3(x)}\right) = 4$$

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$$log_3(x) + 3log_x(3) = 4$$

$$(log_3(x))^2 + 3 = 4log_3(x)$$

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$$log_3(x) + 3log_x(3) = 4$$

$$(\log_3(x))^2 - 4\log_3(x) + 3 = 0$$