

Student Name: _____

Score: _____

Solve for the Unknown Using Quotient Rule

Problems

Work Space

$\log_5 8x - \log_5 2 = \log_5 16$ $x = \underline{\hspace{2cm}}$	
$\log_3(3x - 2) - \log_3 x = \log_3 2$ $x = \underline{\hspace{2cm}}$	
$\log_{10}(7x - 6) - \log_{10} 2 = \log_{10} 2x$ $x = \underline{\hspace{2cm}}$	
$\log_2(x + 1) - \log_2(x - 1) = \log_2 5$ $x = \underline{\hspace{2cm}}$	

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Answers

$\log_5 8x - \log_5 2 = \log_5 16$ $x = 4$	
$\log_3(3x - 2) - \log_3 x = \log_3 2$ $x = 2$	
$\log_{10}(7x - 6) - \log_{10} 2 = \log_{10} 2x$ $x = 2$	
$\log_2(x + 1) - \log_2(x - 1) = \log_2 5$ $x = \frac{3}{2}$	