Solving Logarithmic Equations Name_____

Log=Log

$log_{13}(-5n+3) = log_{13}3$	$log_{16}(8-3n) = log_{16}5n$
$log_3(8-n) = log_3(4-4n)$	$log_{17}(x^2+2) = log_{17}(-6x+2)$

Three Logs

$log_8 x + log_8(x+8) = log_8 48$	$\log(x+1) - logx = log18$
$log_9 3 + log_9(-4x) = log_9 5$	$log_7 10 + log_7(x-10) = log_7 57$

Two Logs on one side

$log2x^2 - log2 = 4$	$\log(x+4) - logx = 1$
$log_9 5 - log_9(x-3) = 1$	$log_6(x^2+2) + log_6 3 = 1$