

## PRE-AP ALGEBRA 2

## 3A.7 CLASSWORK

For problems 1 through 3, solve the indicated logarithmic equation for  $x$ . Be sure to check your solutions for logarithms of negative numbers.

1)

$$\log_4(x - 3) + \log_4(x - 8) = 3$$

2)

$$\log_3(x^2 - 2x - 15) = 2 + \log_3(x - 5)$$

3)

$$\log_5(x + 8) - \log_5(x - 3) = 2$$