

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Solve Using Product Rule**

Problems

Work Space

$$\log_2 5 + \log_2 x = \log_2 35$$

$$x = \underline{\hspace{2cm}}$$

$$\log_2 x + \log_2 8 = \log_2 96$$

$$x = \underline{\hspace{2cm}}$$

$$\log_3 7 + \log_3 x = \log_3 56$$

$$x = \underline{\hspace{2cm}}$$

$$\log_5 11 + \log_5 x = \log_5 143$$

$$x = \underline{\hspace{2cm}}$$

$$\log_2 x + \log_2 6 = \log_2 48$$

$$x = \underline{\hspace{2cm}}$$

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### Answers

$\log_2 5 + \log_2 x = \log_2 35$	
$x = 7$	
$\log_2 x + \log_2 8 = \log_2 96$	
$x = 12$	
$\log_3 7 + \log_3 x = \log_3 56$	
$x = 8$	
$\log_5 11 + \log_5 x = \log_5 143$	
$x = 13$	
$\log_2 x + \log_2 6 = \log_2 48$	
$x = 8$	