

# Math Sheet

Name \_\_\_\_\_ Score \_\_\_\_\_ / 24 Teacher \_\_\_\_\_ Date \_\_\_\_\_

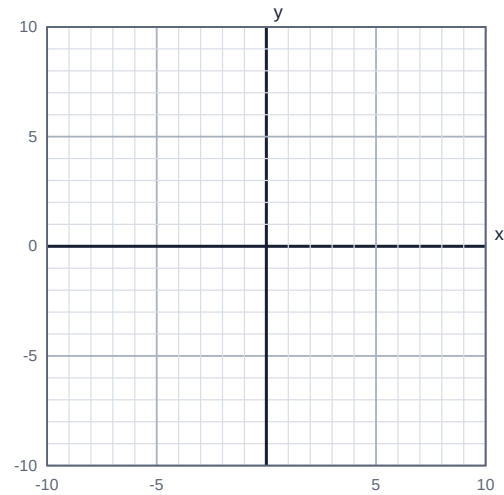
## Graphing Logarithmic Functions

Find the domain and range, then graph each logarithmic function.

1.  $y = \log_5 x - 1$

Domain: \_\_\_\_\_

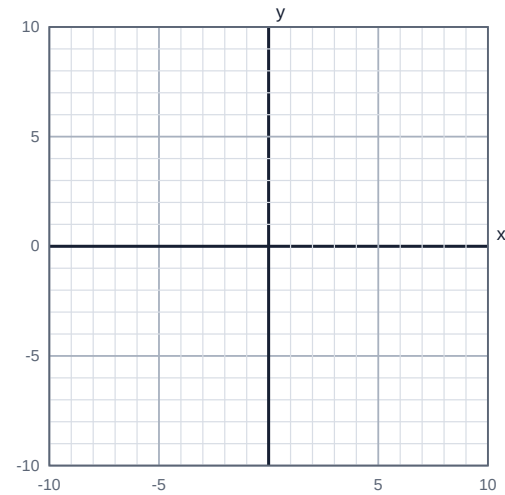
Range: \_\_\_\_\_



2.  $y = \log_{10}(x + 5) - 2$

Domain: \_\_\_\_\_

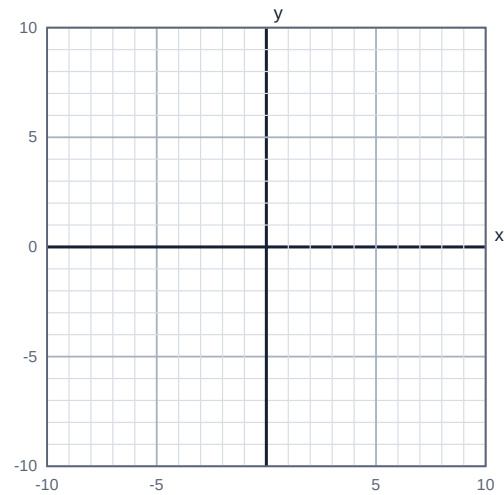
Range: \_\_\_\_\_



3.  $y = \log_3(x + 3) + 3$

Domain: \_\_\_\_\_

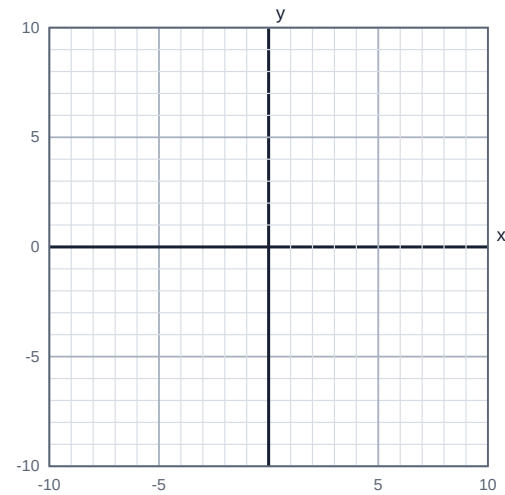
Range: \_\_\_\_\_



4.  $y = \log_4(x - 4) + 1$

Domain: \_\_\_\_\_

Range: \_\_\_\_\_



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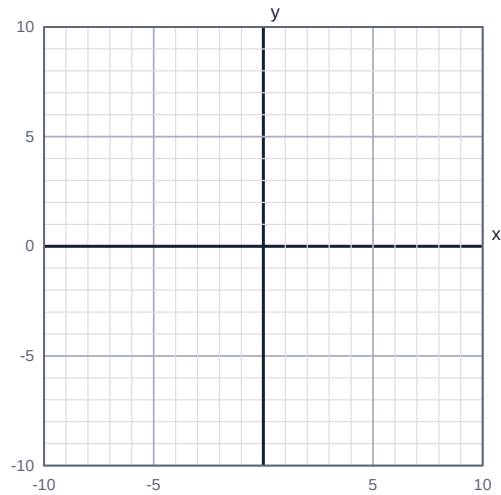
Graphing Logarithmic Functions

Find the domain and range, then graph each logarithmic function.

5.  $y = \log_8(3 \cdot x - 1) + 3$

Domain: \_\_\_\_\_

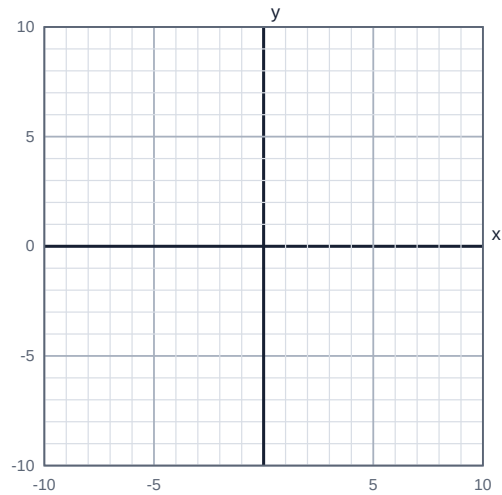
Range: \_\_\_\_\_



6.  $y = \log_7(4 \cdot x + 5) - 2$

Domain: \_\_\_\_\_

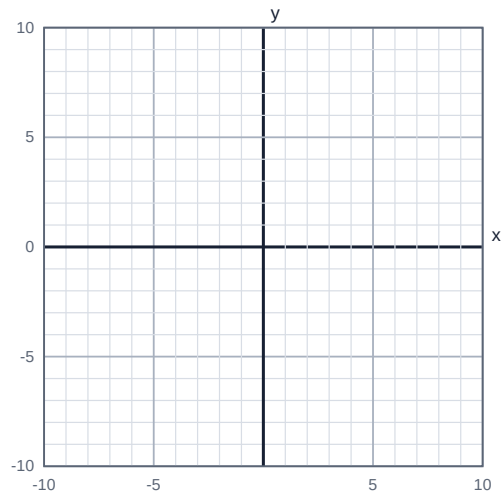
Range: \_\_\_\_\_



7.  $y = \log_8(4 \cdot x - 5) + 5$

Domain: \_\_\_\_\_

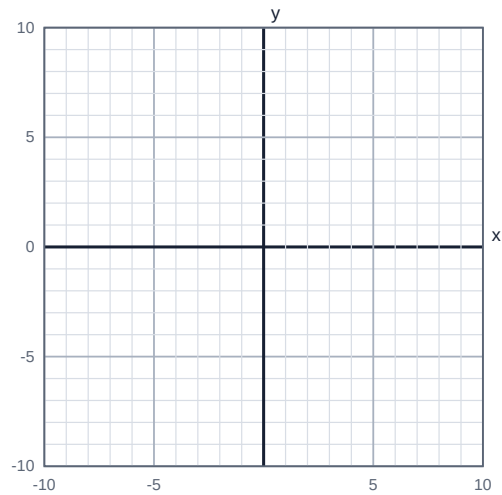
Range: \_\_\_\_\_



8.  $y = \log_6(2 \cdot x - 1) + 2$

Domain: \_\_\_\_\_

Range: \_\_\_\_\_



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## Graphing Logarithmic Functions

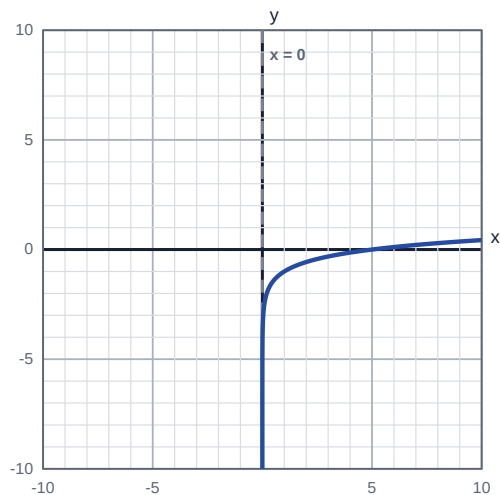
### Answer Key

Find the domain and range, then graph each logarithmic function.

1.  $y = \log_5 x - 1$

Domain:  $x > 0$

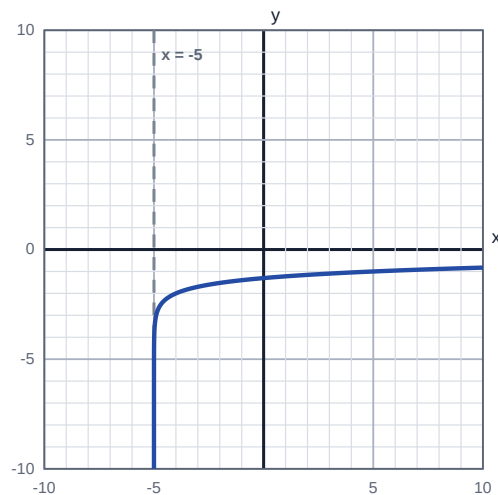
Range: all real numbers



2.  $y = \log_{10}(x + 5) - 2$

Domain:  $x > -5$

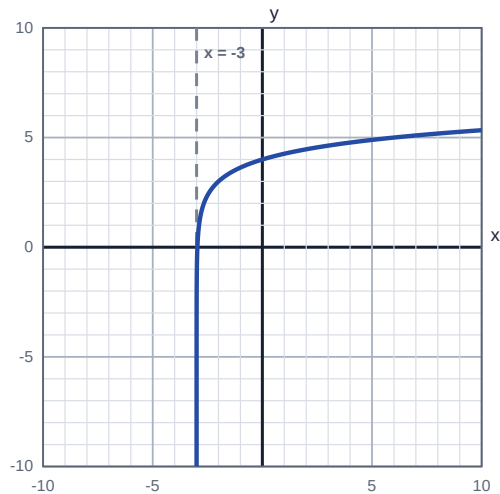
Range: all real numbers



3.  $y = \log_3(x + 3) + 3$

Domain:  $x > -3$

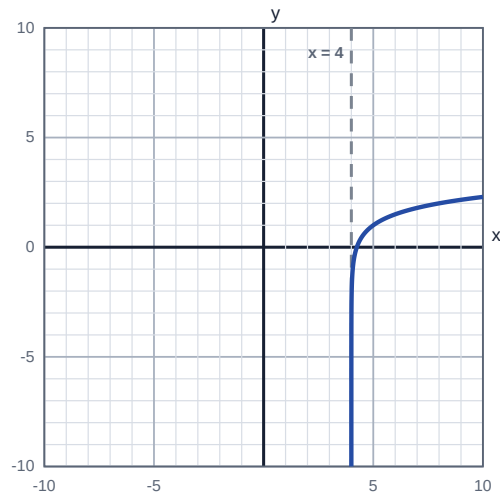
Range: all real numbers



4.  $y = \log_4(x - 4) + 1$

Domain:  $x > 4$

Range: all real numbers



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## Graphing Logarithmic Functions

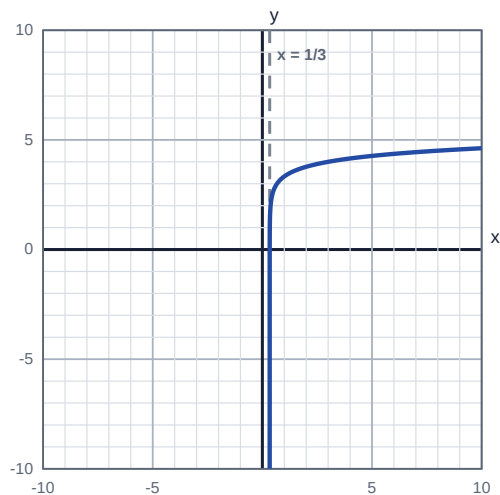
### Answer Key

Find the domain and range, then graph each logarithmic function.

5.  $y = \log_8(3 \cdot x - 1) + 3$

Domain:  $x > 1/3$

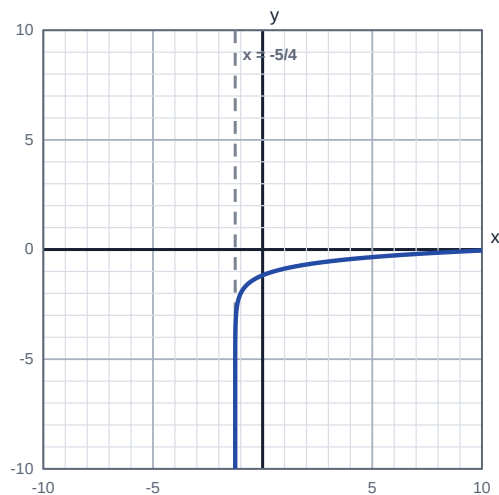
Range: all real numbers



6.  $y = \log_7(4 \cdot x + 5) - 2$

Domain:  $x > -5/4$

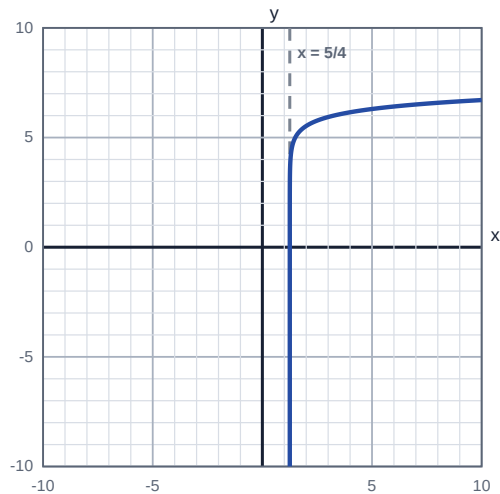
Range: all real numbers



7.  $y = \log_8(4 \cdot x - 5) + 5$

Domain:  $x > 5/4$

Range: all real numbers



8.  $y = \log_6(2 \cdot x - 1) + 2$

Domain:  $x > 1/2$

Range: all real numbers

