

Math Sheet

Name _____ Score _____ / 24 Teacher _____ Date _____

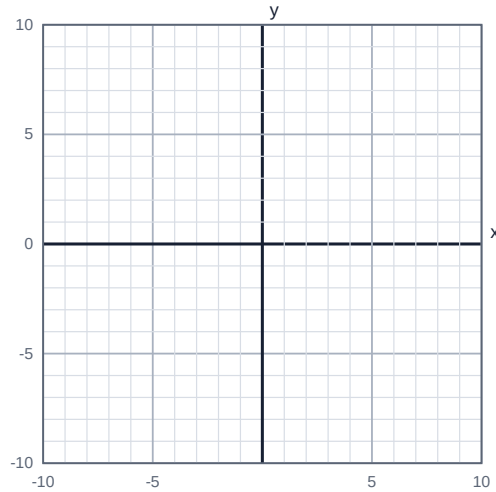
Graphing Logarithmic Functions

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

1. $y = \log_5 x - 1$

Domain: _____

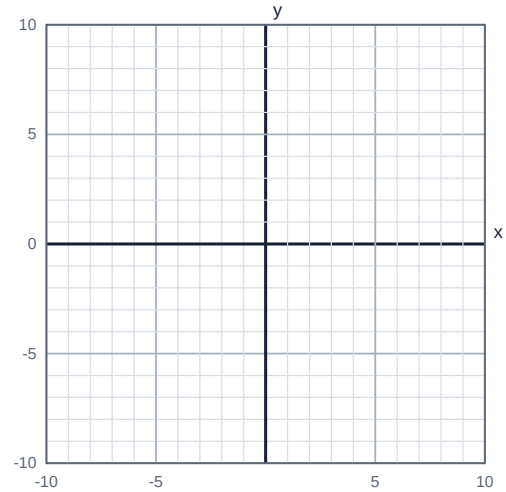
Range: _____



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

Domain: _____

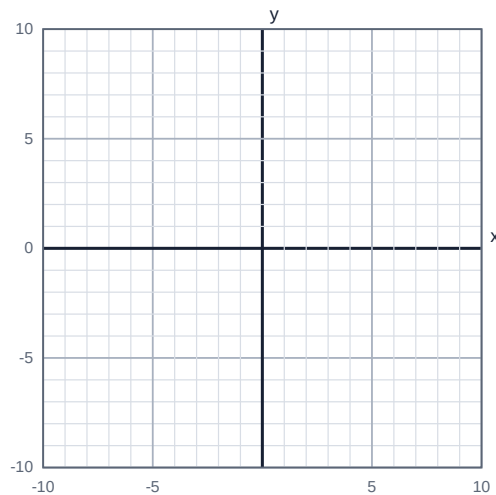
Range: _____



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

Domain: _____

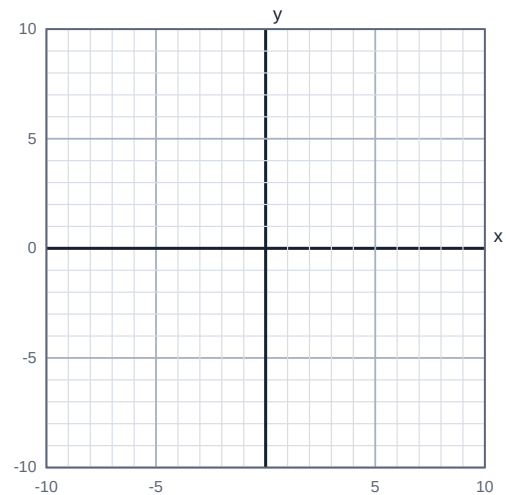
Range: _____



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

Domain: _____

Range: _____



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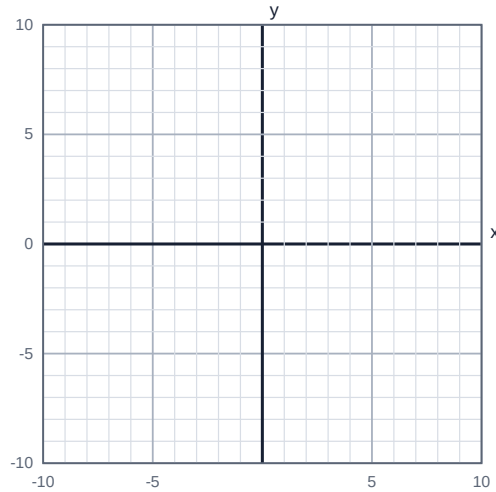
Graphing Logarithmic Functions

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

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

Domain: _____

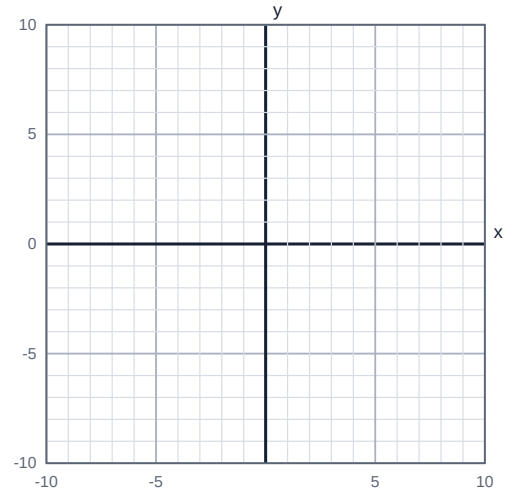
Range: _____



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

Domain: _____

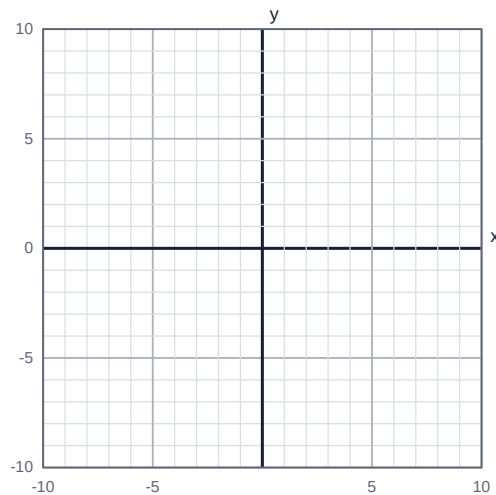
Range: _____



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

Domain: _____

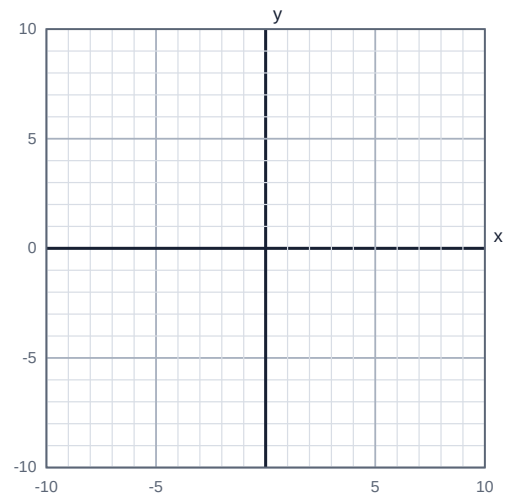
Range: _____



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

Domain: _____

Range: _____



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Graphing Logarithmic Functions

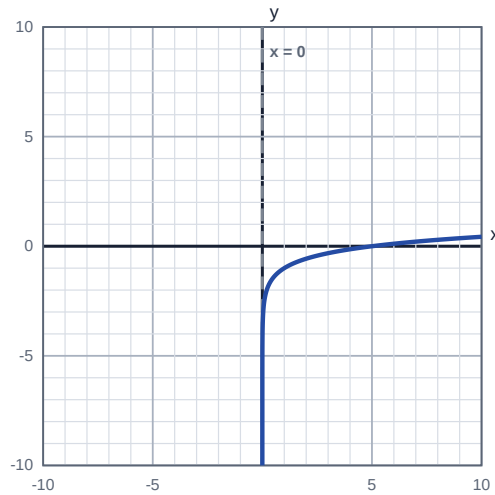
Answer Key

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

1. $y = \log_5 x - 1$

Domain: $x > 0$

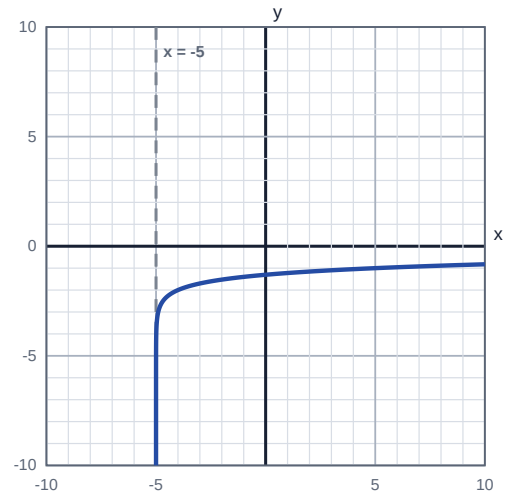
Range: all real numbers



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

Domain: $x > -5$

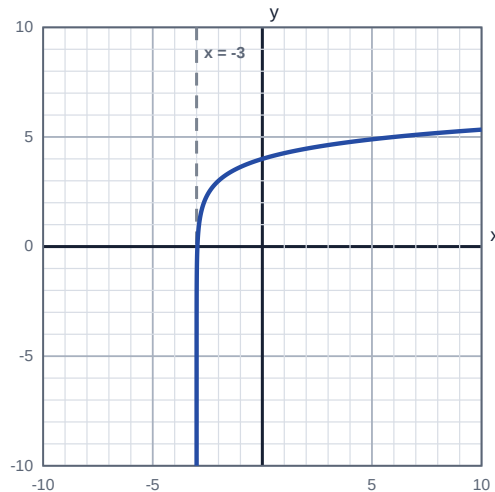
Range: all real numbers



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

Domain: $x > -3$

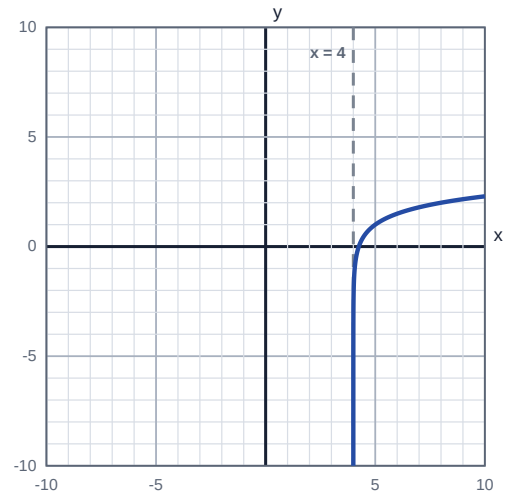
Range: all real numbers



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

Domain: $x > 4$

Range: all real numbers



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Graphing Logarithmic Functions

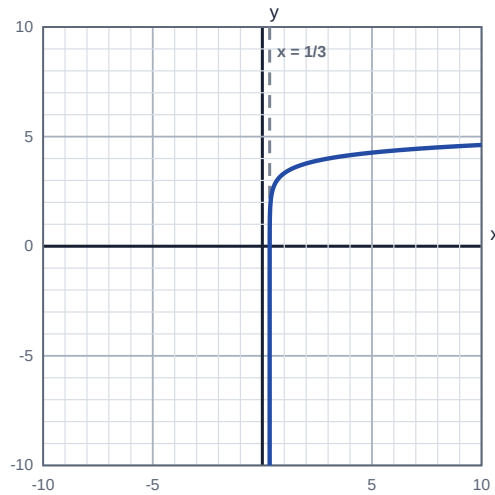
Answer Key

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

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

Domain: $x > 1/3$

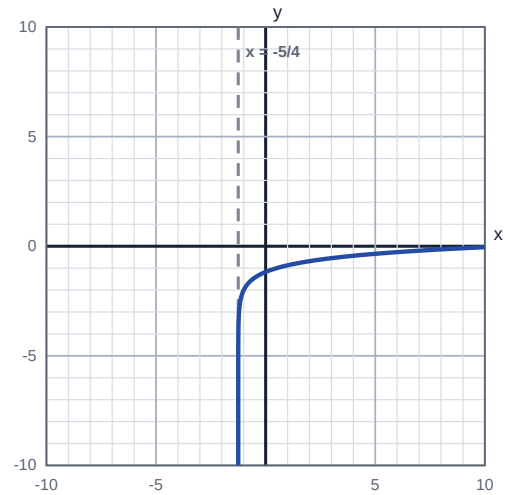
Range: all real numbers



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

Domain: $x > -5/4$

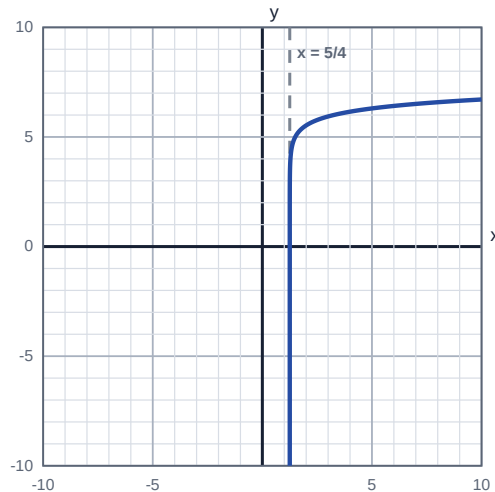
Range: all real numbers



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

