

EXTRA PRACTICE — Exercises

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Unit X – Exponential and Logarithmic Functions

Part B – Logarithmic Functions

Lesson 2 – Graphs; $f(x) = \log_a x$

Graph the solution set for each of the following logarithmic functions by considering them in exponential form.

1. $y - 1 = \log_2 x$

2. $\log_{\frac{2}{3}} x = y$

3. $\log_3 x = y + 2$

4. $\log_2 x = y - 1$

5. $\log_2 x = 3y$

EXTRA PRACTICE — Answers

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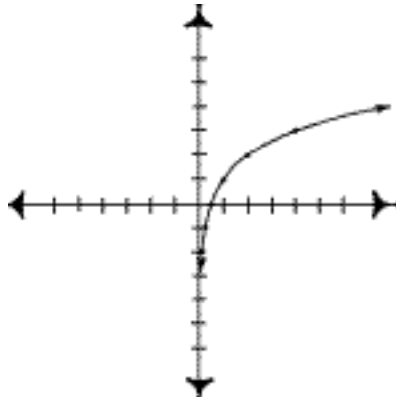
Unit X – Exponential and Logarithmic Functions

Part B – Logarithmic Functions

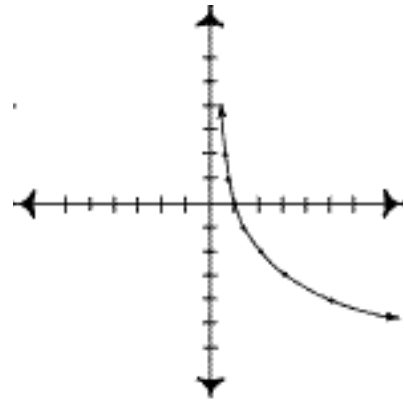
Lesson 2 – Graphs; $f(x) = \log_a x$

Graph the solution set for each of the following logarithmic functions by considering them in exponential form.

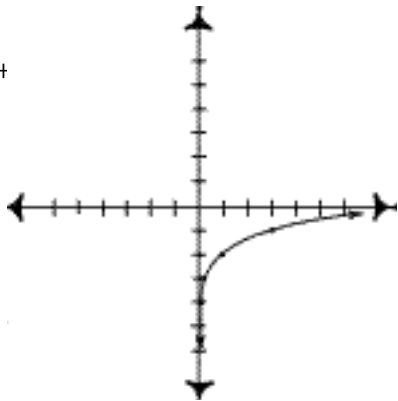
1. $y - 1 = \log_2$



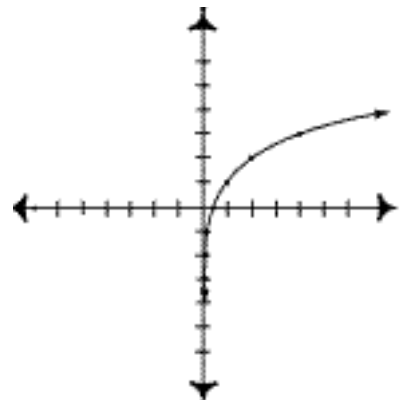
2. $\log_{\frac{2}{3}} x = y$



3. $\log_3 x = y +$



4. $\log_2 x = y - 1$



5. $\log_2 x = 3y$

