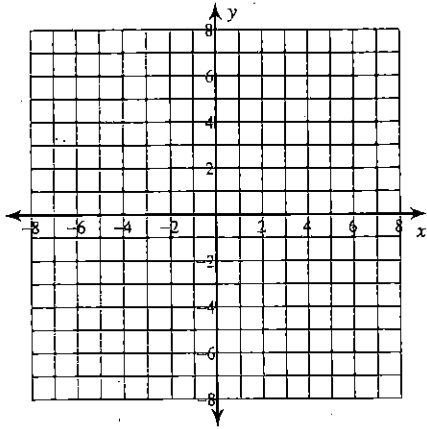


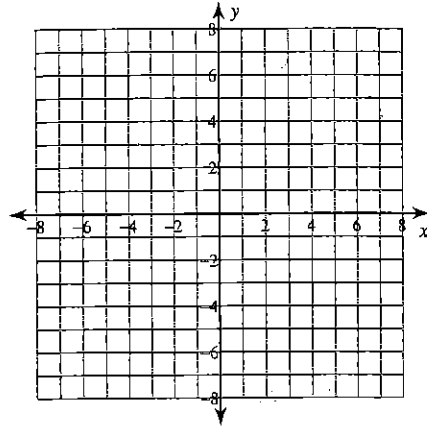
### Graphing Logarithms

Identify the domain and range of each. Then sketch the graph.

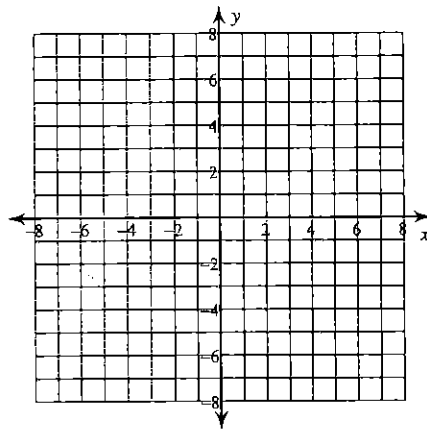
1)  $y = \log_6(x - 1) - 5$



2)  $y = \log_5(x - 1) + 3$



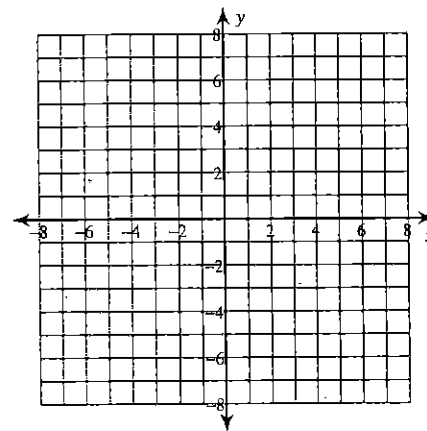
3)  $y = \log_6(x - 3) - 5$



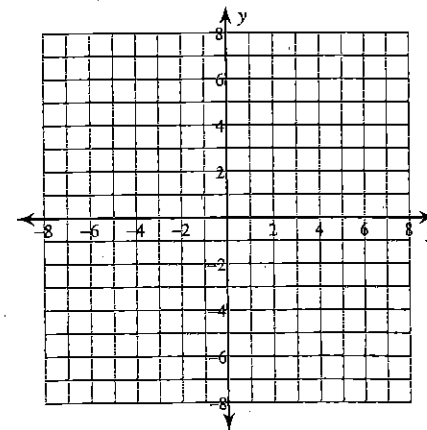
4)  $y = \log_2(x - 1) + 3$



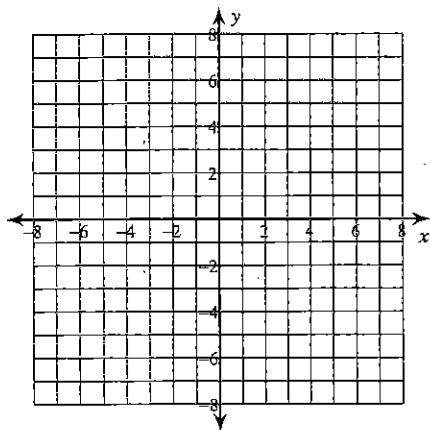
5)  $y = \log_4(x + 1) - 4$



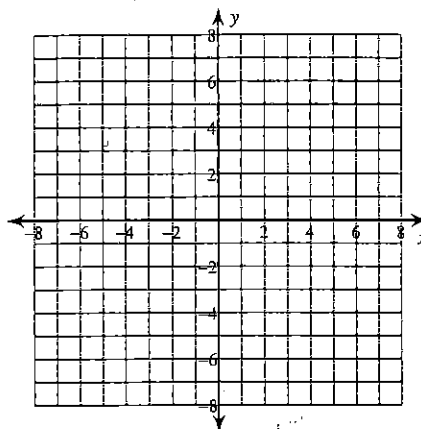
6)  $y = \log_5(x + 1) + 1$



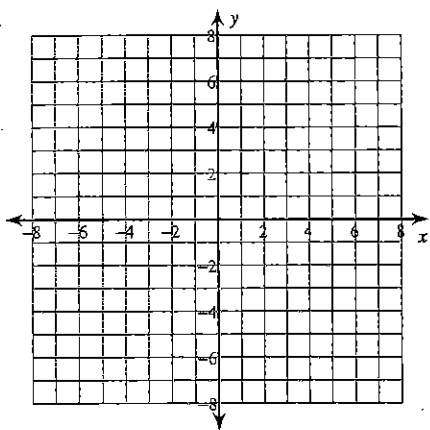
$$7) y = \log_4(x+2) + 1$$



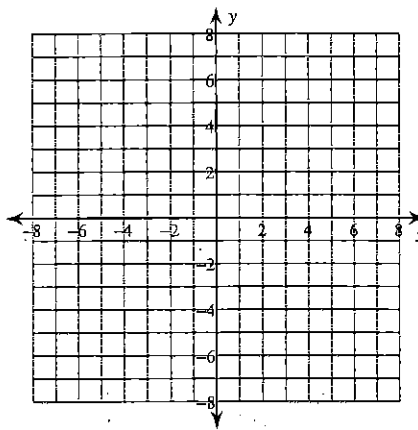
$$8) y = \log_6(x-2) + 1$$



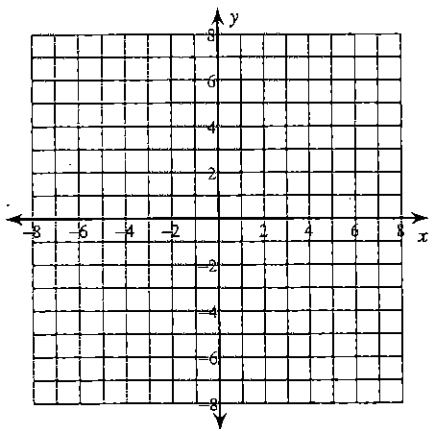
$$9) y = \log_4(3x+11) - 5$$



$$10) y = \log_5(2x+2) + 5$$



$$11) y = \log_6(3x+14) + 1$$



$$12) y = \log_2(4x-11) - 2$$

