Name_____ ID: 1
Activity 0223   Date_____ Period____
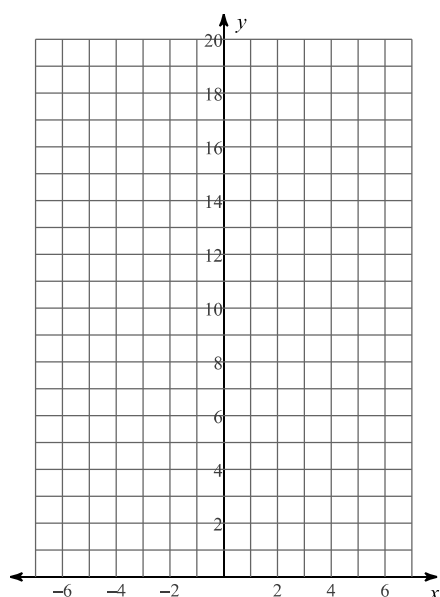
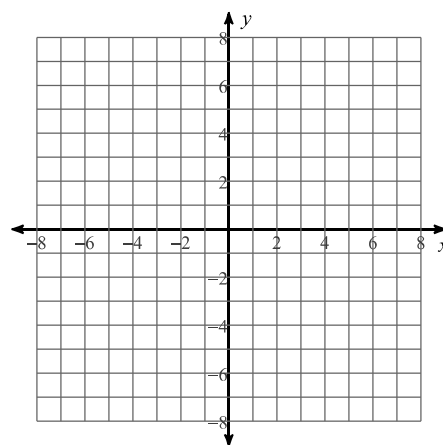**Identify the domain and range of each.**

1) $y = \log_5 (4x + 17) - 2$

2) $y = \log_4 (2x - 1)$

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

4) $y = \ln (x + 1) + 4$

3) $y = \dfrac{1}{3} \cdot 2^x$

Evaluate each expression.

5) $\log_7 343$

6) $\log_{16} \dfrac{1}{4}$

Use a calculator to approximate each to the nearest thousandth.

7) $\log_4 -3.9$

8) $\log_7 1$

9) $\log_4 27$

10) $\log_7 3.5$

11) $\log_3 13$

12) $\log_2 62$