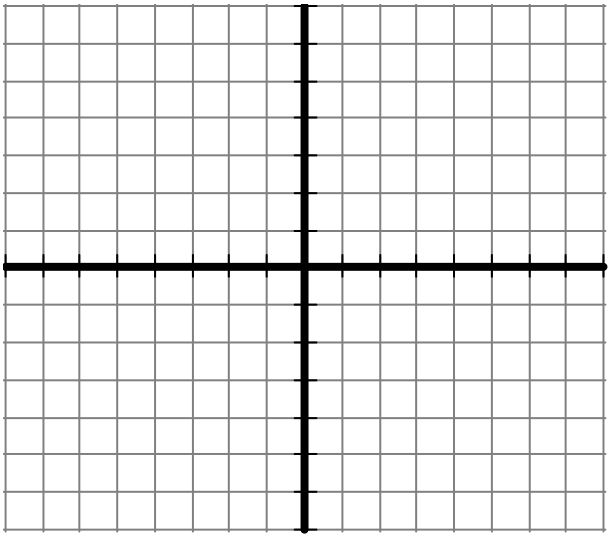
Homework 14 – Graphs of Dilations Name:
Precalculus – Mr. Oberle

Sketch each of the following graphs. Describe the domain and range of the function.

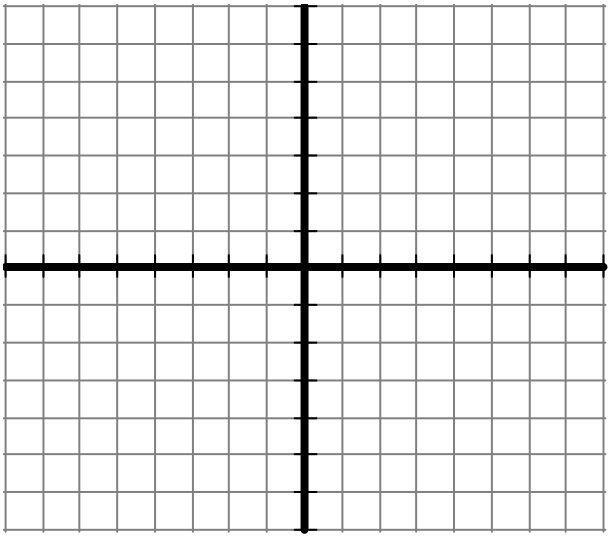
1. $y = \frac{1}{2}x^2$



Domain:

Range:

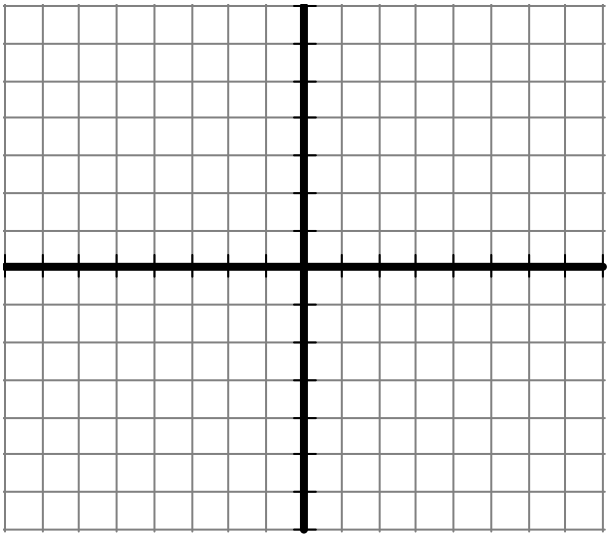
2. $y = \sqrt[3]{4x}$



Domain:

Range:

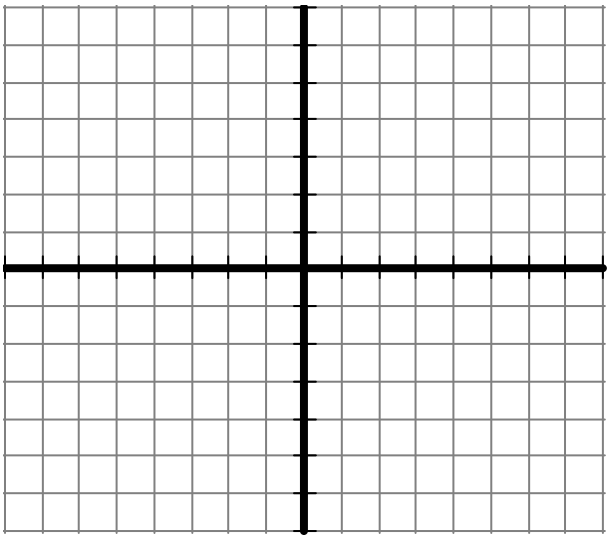
3. $y = 3 \cdot 2^x$



Domain:

Range:

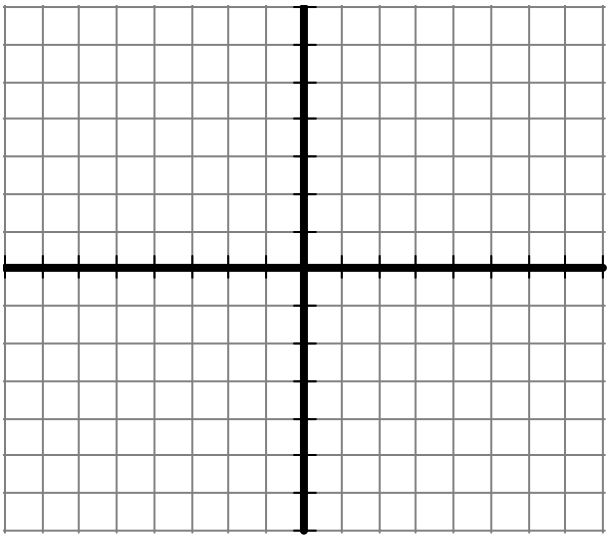
4. $y = 4\lfloor 2x \rfloor$



Domain:

Range:

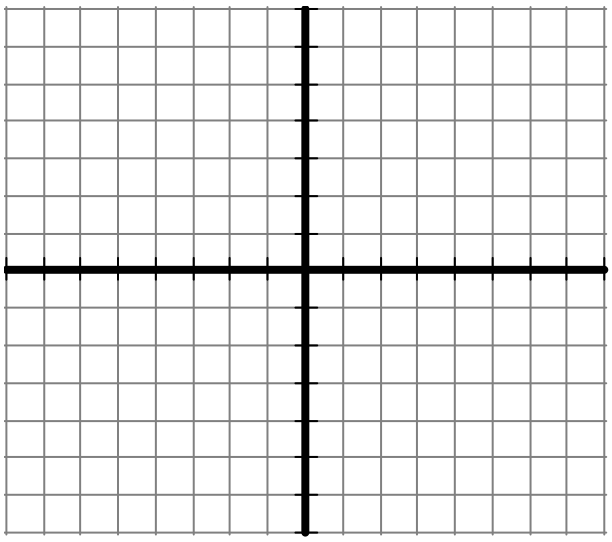
5. $y = 2\log_2\left(-\frac{x}{3}\right)$



Domain:

Range:

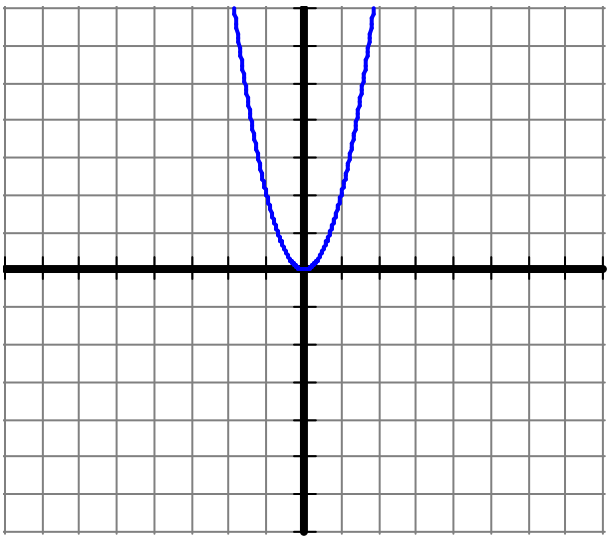
6. $y = \frac{2}{(x+3)^2}$



Domain:

Range:

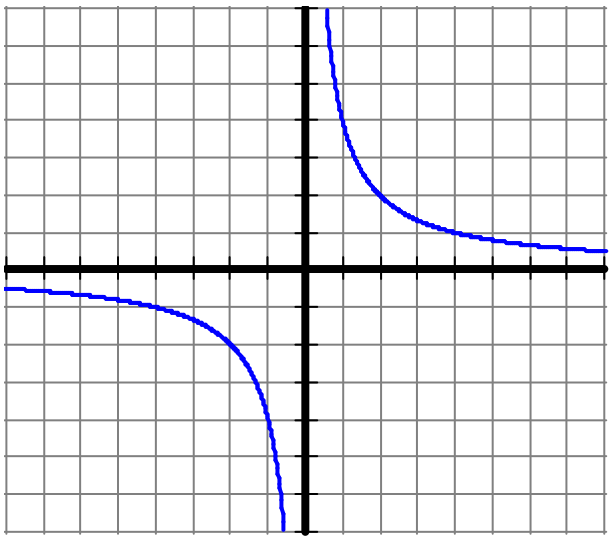
Write the formula for each of the following graphs. Describe the domain and range of the function, and find the asymptotes when appropriate.



7. $y =$

Domain:

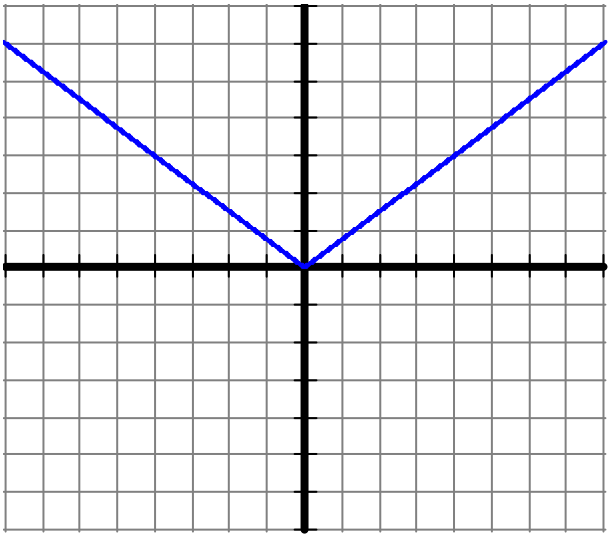
Range:



8. $y =$

Domain:

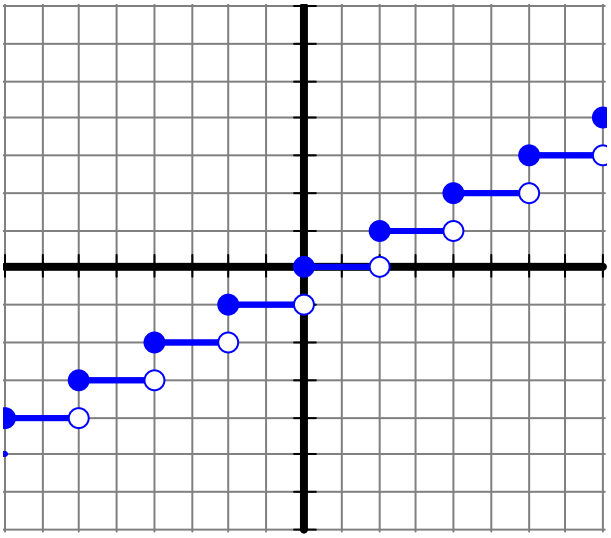
Range:



9. $y =$

Domain:

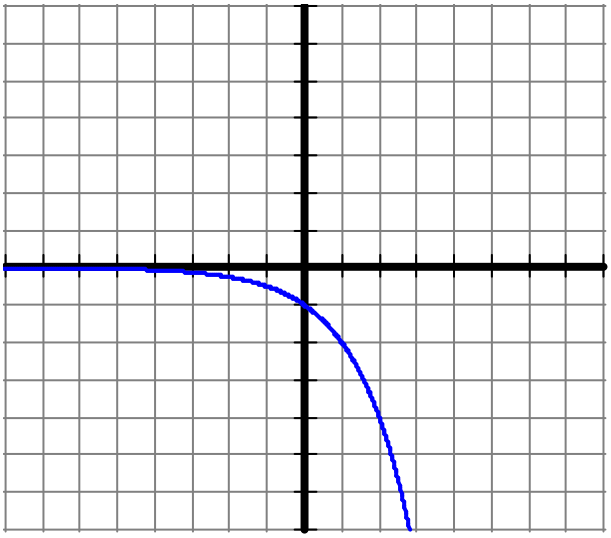
Range:



11. $y =$

Domain:

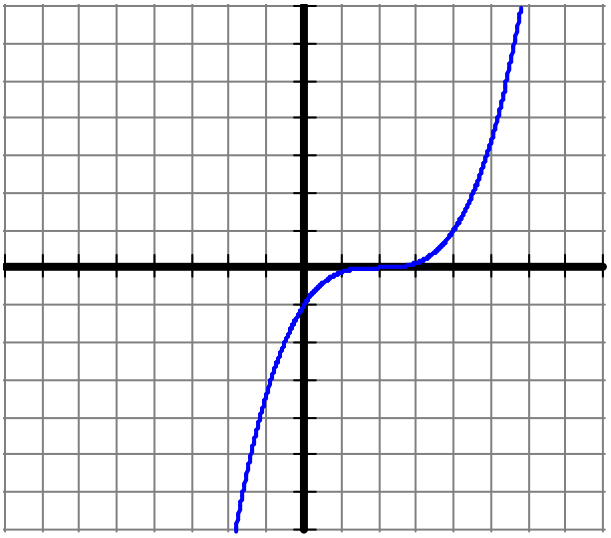
Range:



10. $y =$

Domain:

Range:



12. $y =$

Domain:

Range: