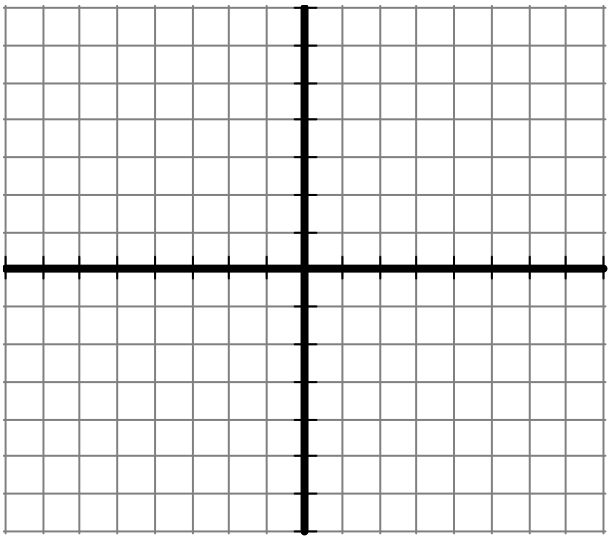
Homework – Graphs with Transformations Name:
Precalculus – Mr. Oberle

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

1. $y = \sqrt{x+2} - 1$

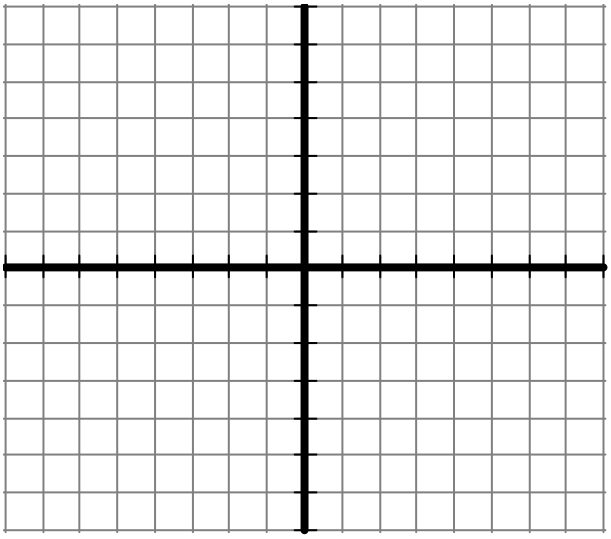


Domain:

Range:

Asymptotes

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

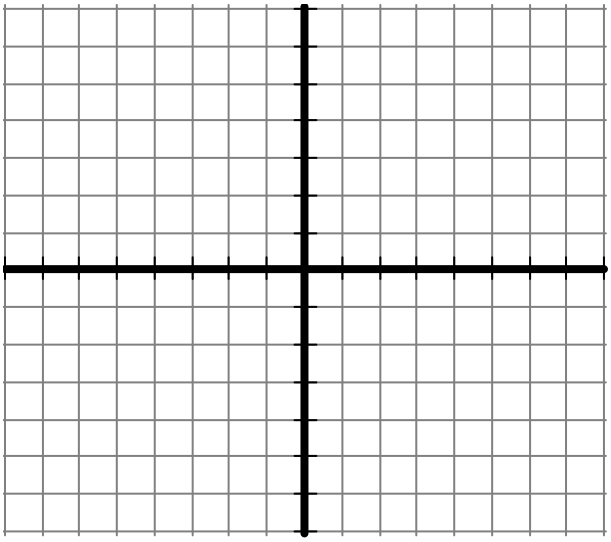


Domain:

Range:

Asymptotes

3. $y = 2 \cdot 3^x - 4$

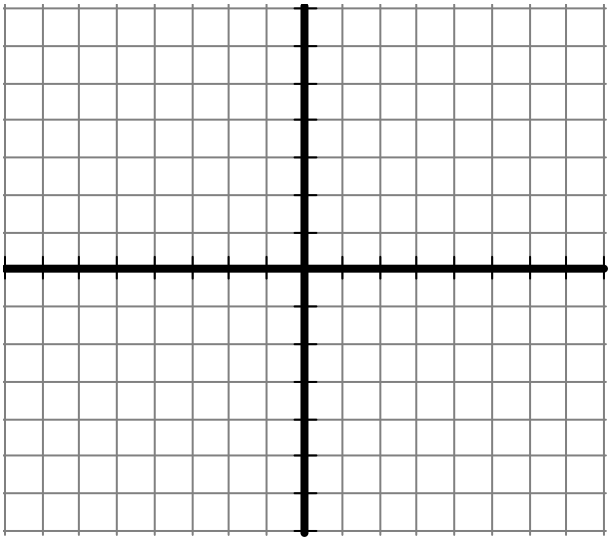


Domain:

Range:

Asymptotes:

4. $y = \dfrac{3}{\left(2\left(x+1\right)\right)^2} - 2$

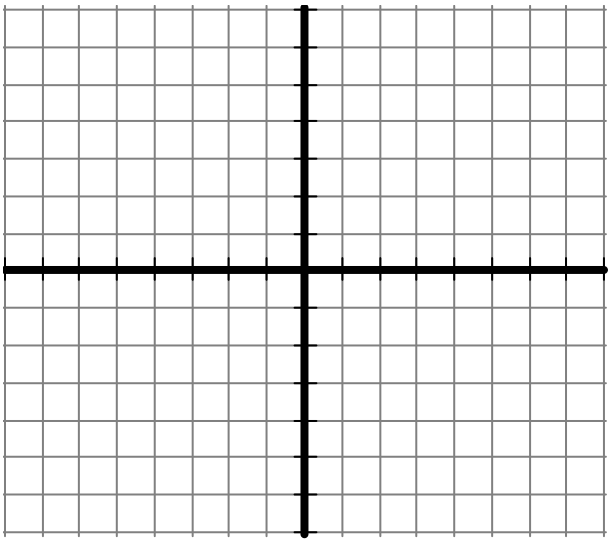


Domain:

Range:

Asymptotes:

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

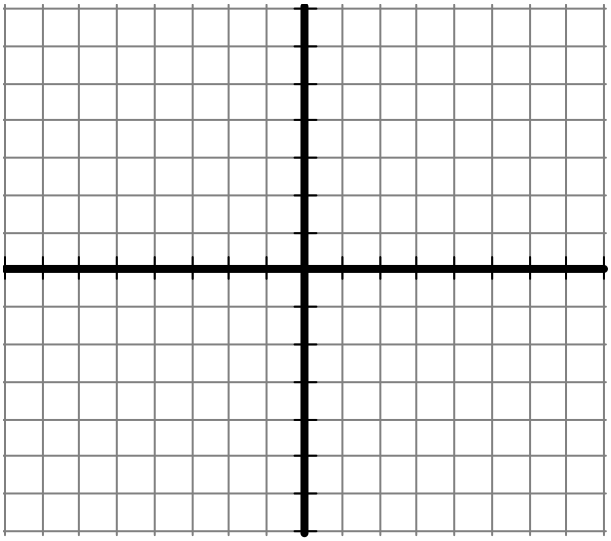


Domain:

Range:

Asymptotes:

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

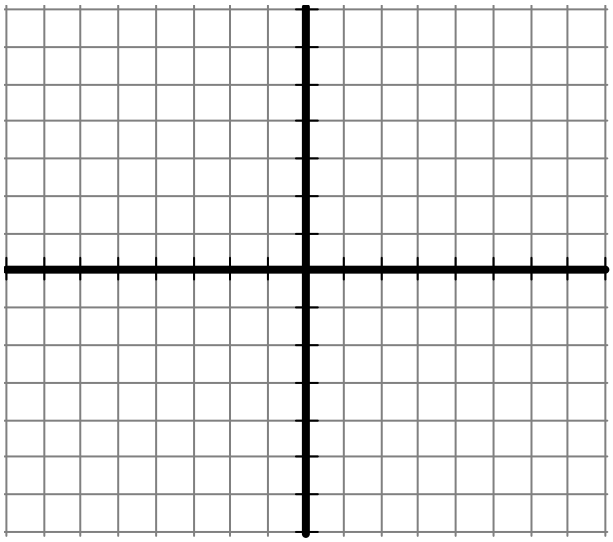


Domain:

Range:

Asymptotes:

7. $y = -2|x-1|+3$

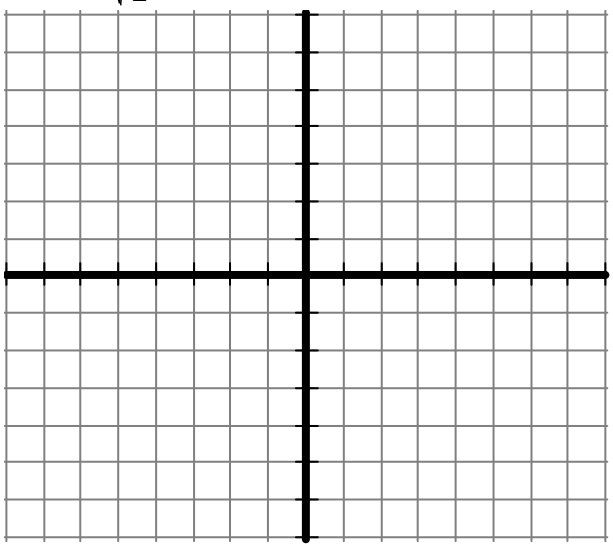


Domain:

Range:

Asymptotes:

8. $y = \sqrt[3]{\frac{1}{2}|x-2|}-1$

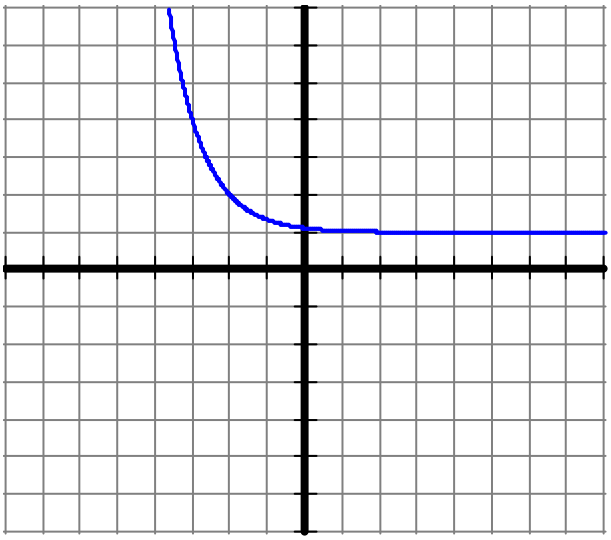


Domain:

Range:

Asymptotes:

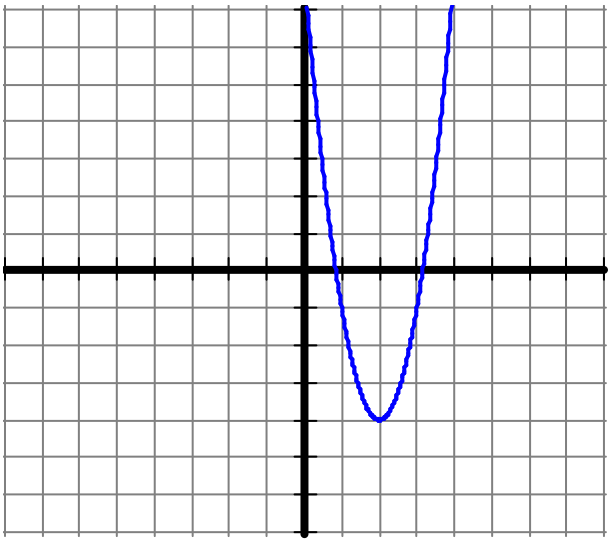
Write the formula for each of the following graphs. Describe the domain and range of the function.



9. $y =$

Domain:

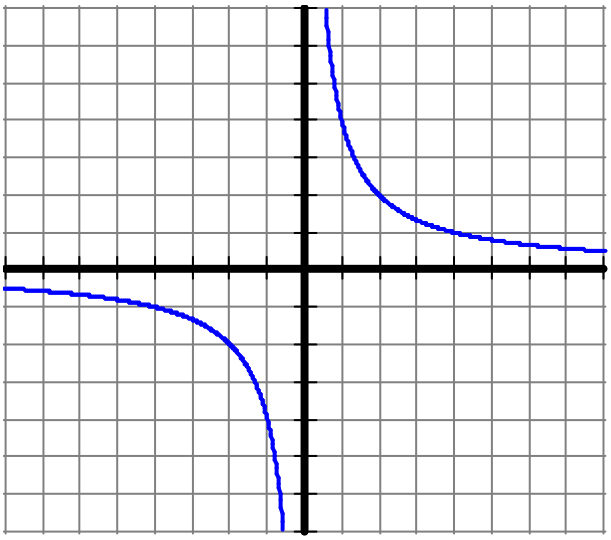
Range:



11. $y =$

Domain:

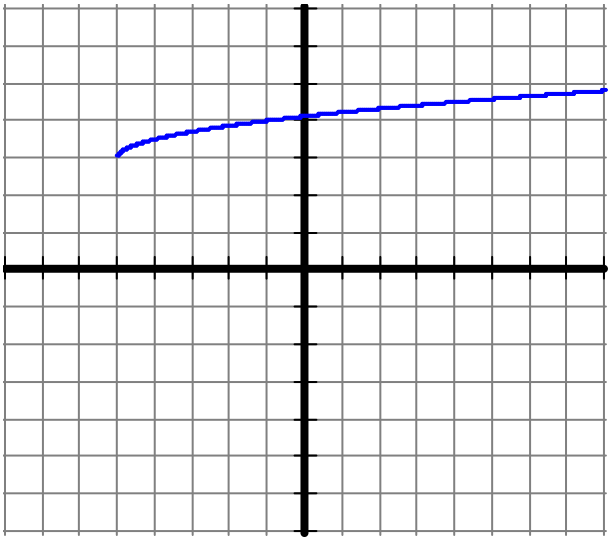
Range:



10. $y =$

Domain:

Range:



12. $y =$

Domain:

Range: