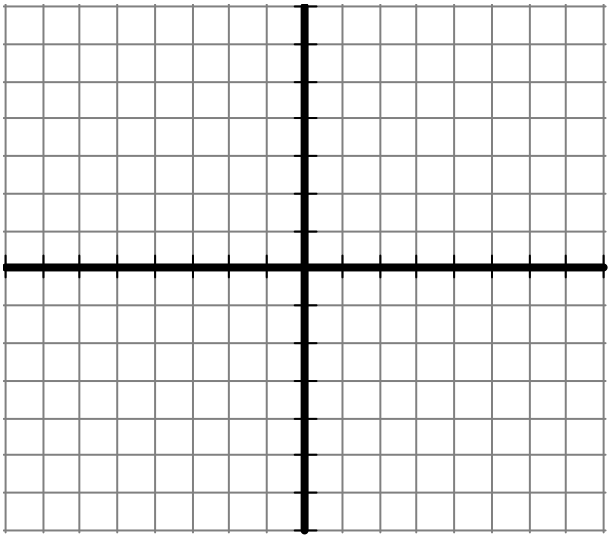
Homework 13 – Graphs of Translations Name:
Precalculus – Mr. Oberle

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

1. $y = (x-3)^2$

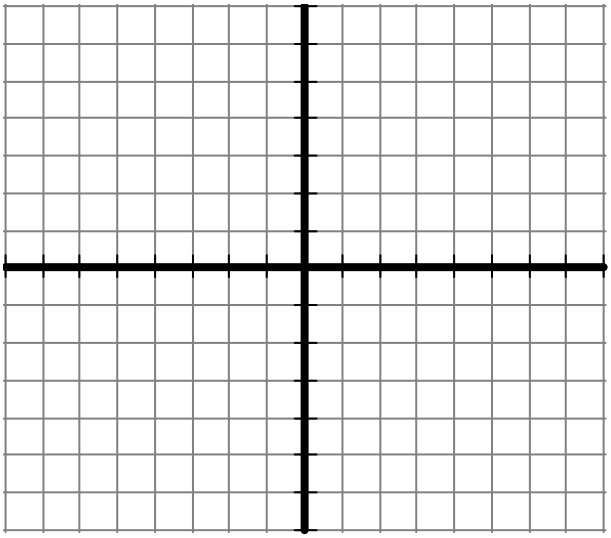


Domain:

Range:

Other:

2. $y = |x| + 2$

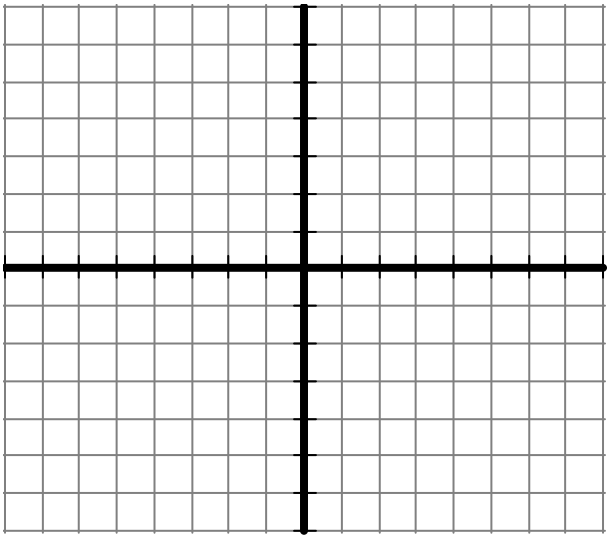


Domain:

Range:

Other:

3. $y = x^3 - 2$

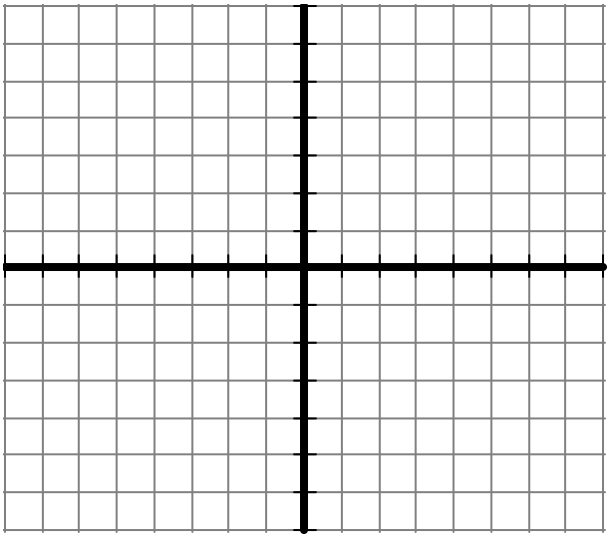


Domain:

Range:

Other:

4. $y = \dfrac{1}{x-4}$

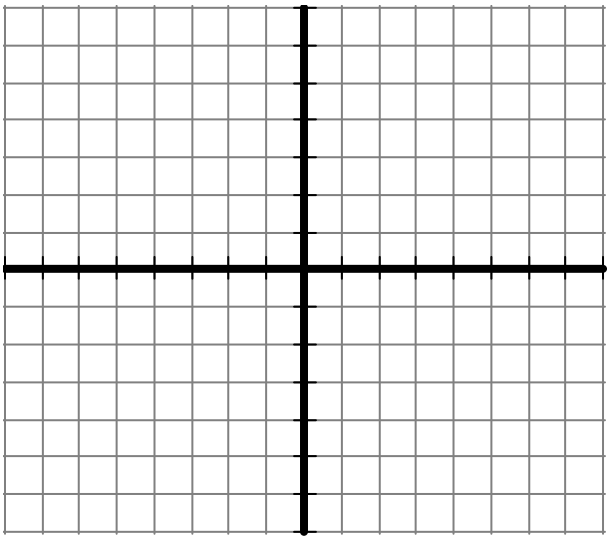


Domain:

Range:

Other:

5. $y = 3^x - 4$

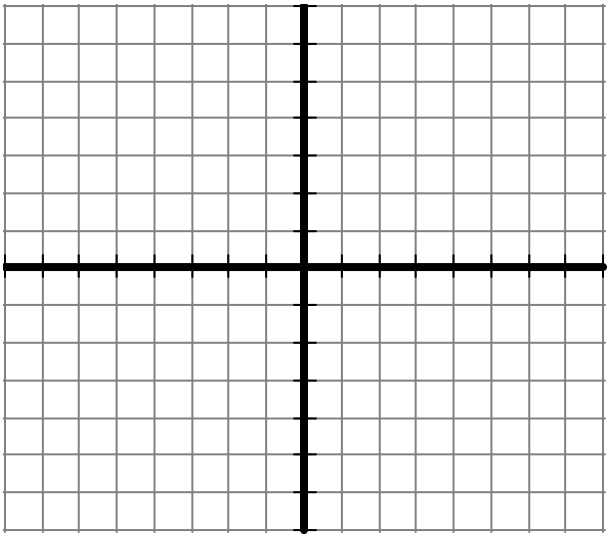


Domain:

Range:

Other:

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

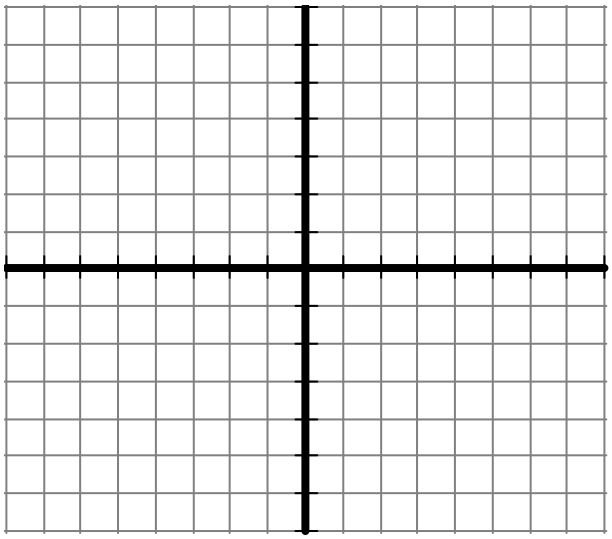


Domain:

Range:

Other:

7. $y = \left(\frac{1}{2}\right)^{x+3}$

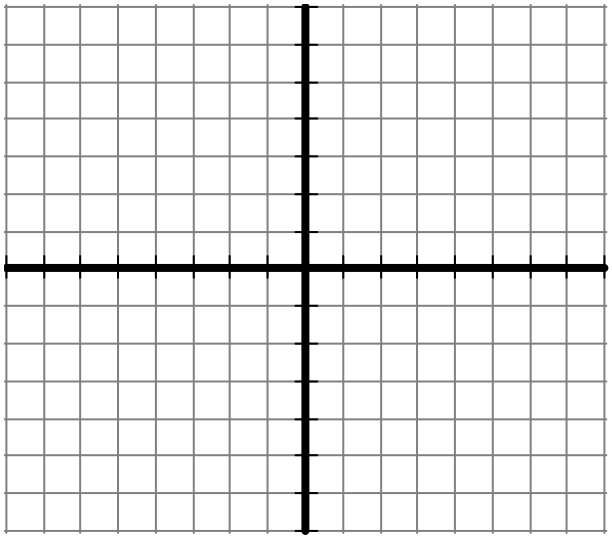


Domain:

Range:

Other:

8. $y = \log_2(x+1) + 3$

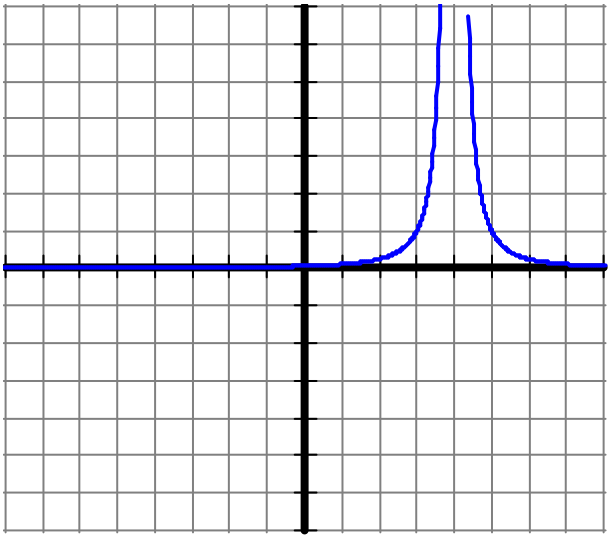


Domain:

Range:

Other:

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

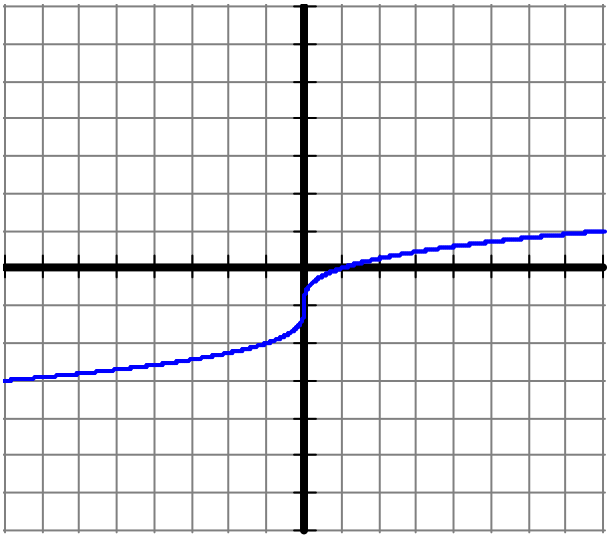


9. $y =$

Domain:

Range:

Other:

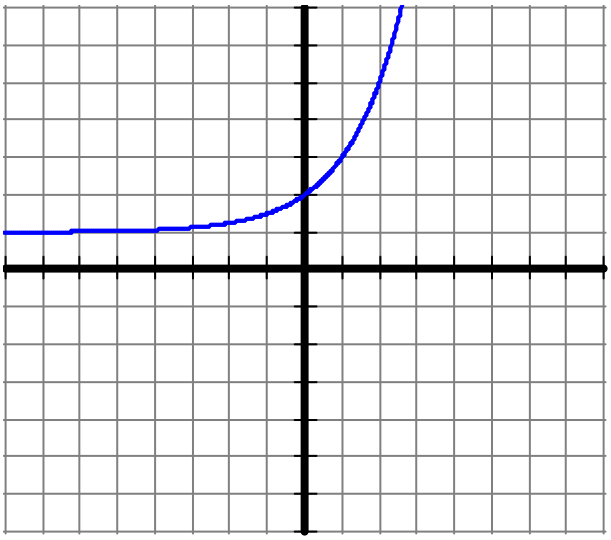


11. $y =$

Domain:

Range:

Other:

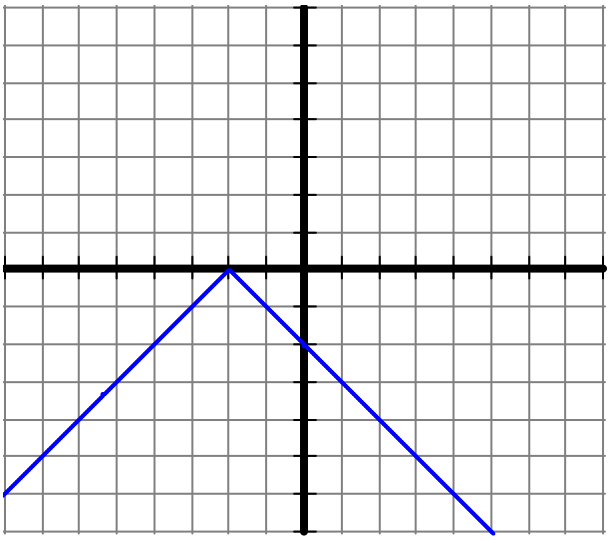


10. $y =$

Domain:

Range:

Other:

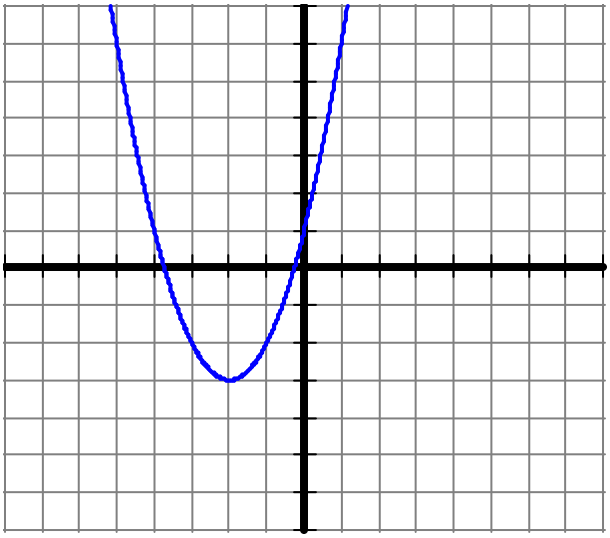


12. $y =$

Domain:

Range:

Other:

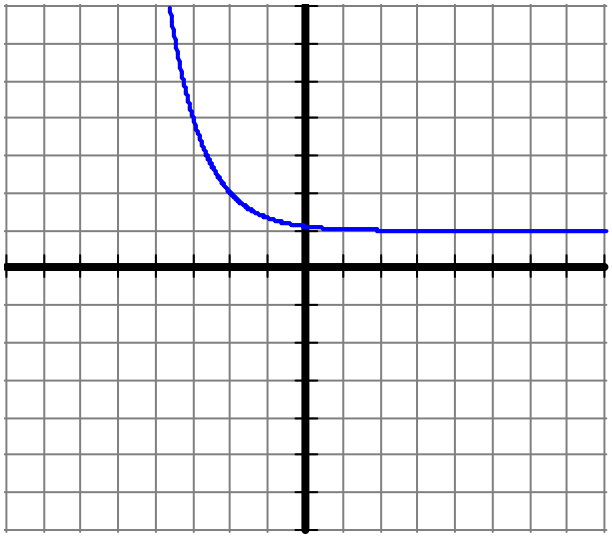


13. $y =$

Domain:

Range:

Other:

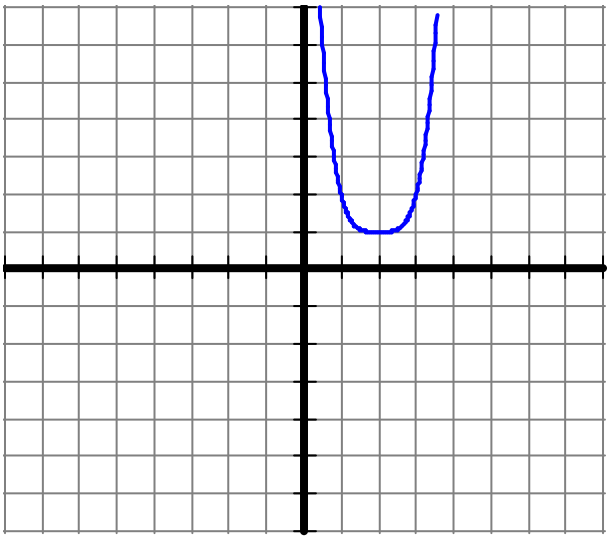


15. $y =$

Domain:

Range:

Other:

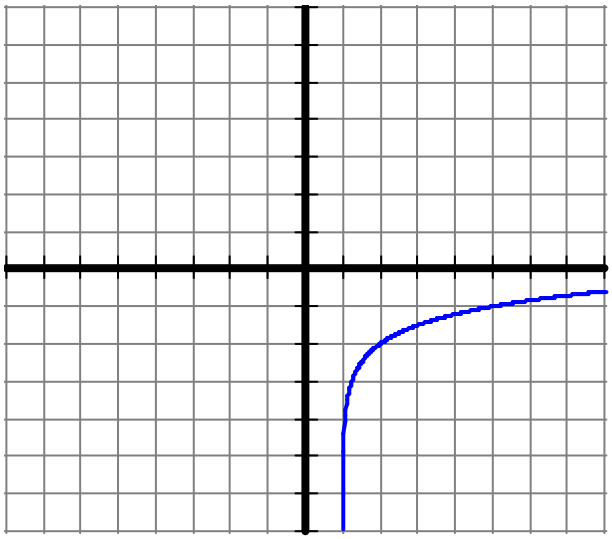


14. $y =$

Domain:

Range:

Other:



16. $y =$

Domain:

Range:

Other: