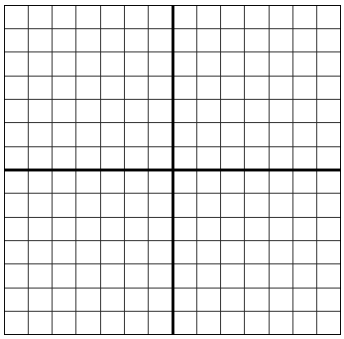
PreCalc **Name: _____**

3.6 Graphs of Exponential and Log Functions **Date: _____**

<u>Directions:</u> Graph each equation in the given coordinate plane.

1. $y = 2^x$



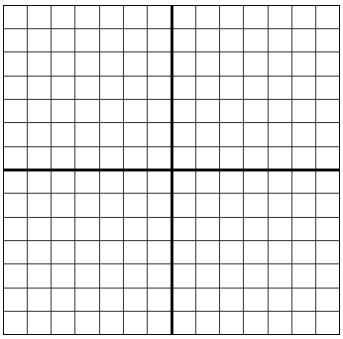
y-int: _____

HA: _____

Domain: _____

Range: _____

2. $y = -2^x$



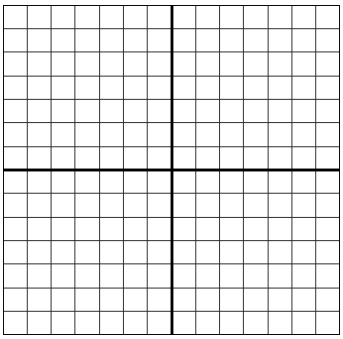
y-int: _____

HA: _____

Domain: _____

Range: _____

3. $y = 2^{x+3}$



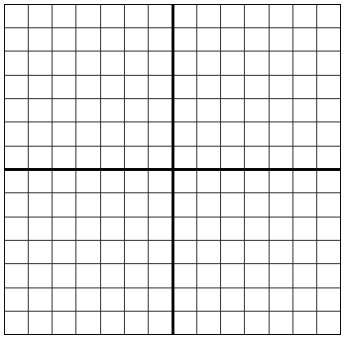
y-int: _____

HA: _____

Domain: _____

Range: _____

4. $y = 2^x - 3$



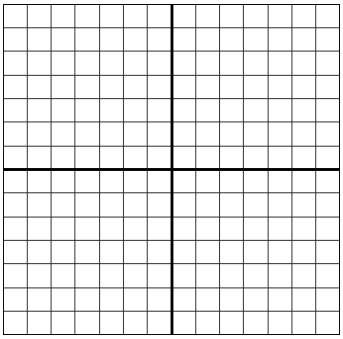
y-int: _____

HA: _____

Domain: _____

Range: _____

5. $y = -2^x + 1$



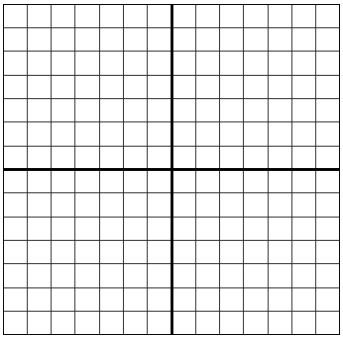
y-int: _____

HA: _____

Domain: _____

Range: _____

6. $y = 2^{x-2} - 1$



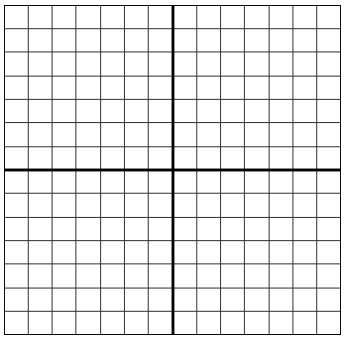
y-int: _____

HA: _____

Domain: _____

Range: _____

7. $y = 2^{-x}$



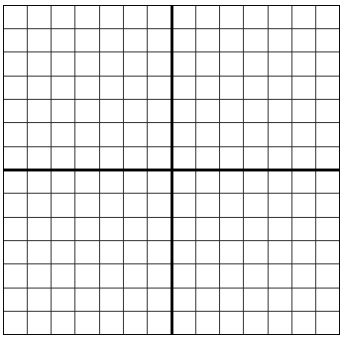
y-int: _____

HA: _____

Domain: _____

Range: _____

8. $y = 2^{-x} + 2$



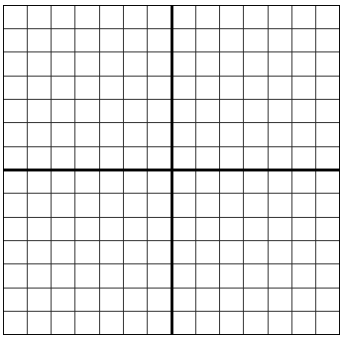
y-int: _____

HA: _____

Domain: _____

Range: _____

9. $y = -2^{-x} + 4$



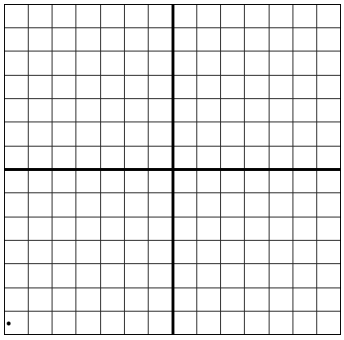
y-int: _____

HA: _____

Domain: _____

Range: _____

10. $y = 2^{-x} - 1$



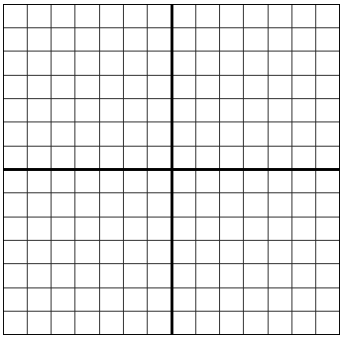
y-int: _____

HA: _____

Domain: _____

Range: _____

11. $y = 2^{x-3} + 2$



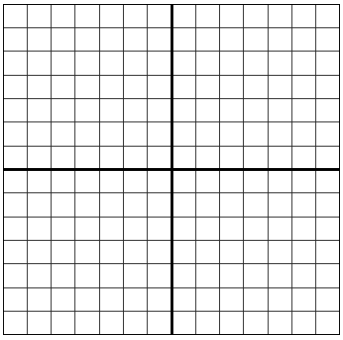
y-int: _____

HA: _____

Domain: _____

Range: _____

12. $y = 2^{x-1} - 2$



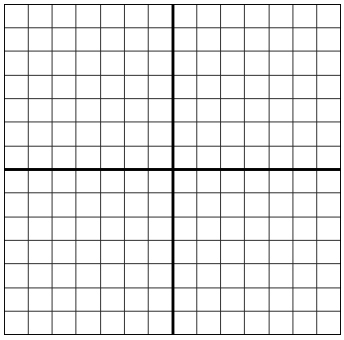
y-int: _____

HA: _____

Domain: _____

Range: _____

13. $y = \log x$



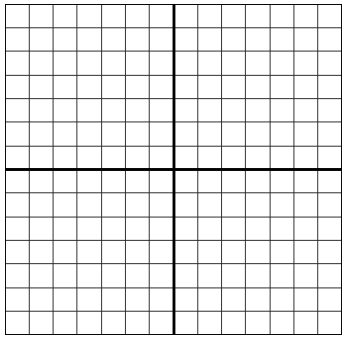
x-int: _____

VA: _____

Domain: _____

Range: _____

14. $y = \log x + 1$



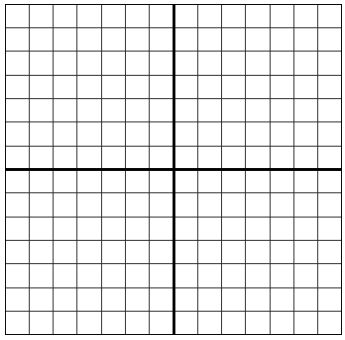
x-int: _____

VA: _____

Domain: _____

Range: _____

15. $y = \ln (x + 1)$



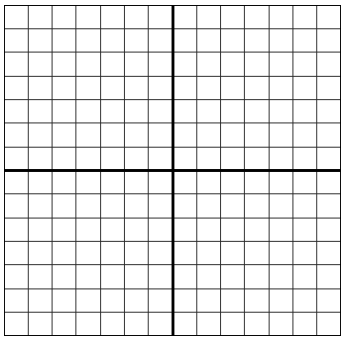
x-int: _____

VA: _____

Domain: _____

Range: _____

16 $y = -\ln x$



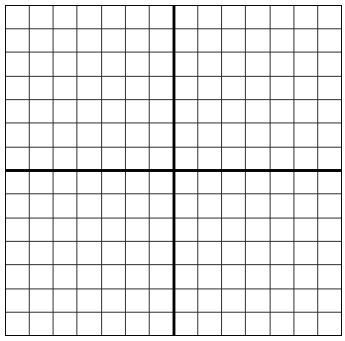
x-int: _____

VA: _____

Domain: _____

Range: _____

17. $y = -\log (x - 2)$



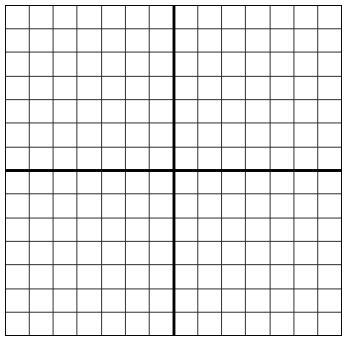
x-int: _____

VA: _____

Domain: _____

Range: _____

18. $y = -\log x - 3$



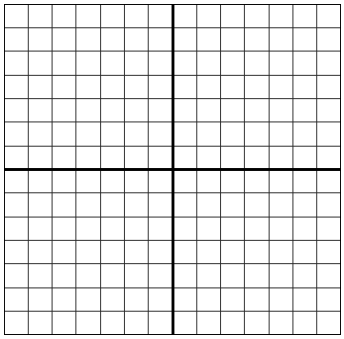
x-int: _____

VA: _____

Domain: _____

Range: _____

19. $y = \log(-x)$



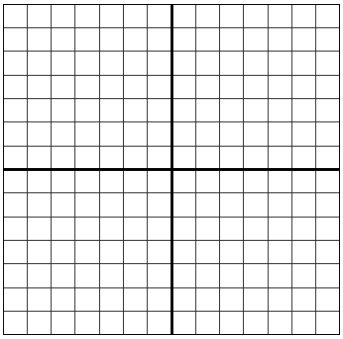
x-int: _____

VA: _____

Domain: _____

Range: _____

20. $y = \ln(-x) + 2$



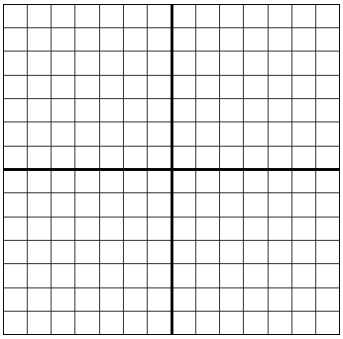
x-int: _____

VA: _____

Domain: _____

Range: _____

21. $y = \log(-x) - 3$



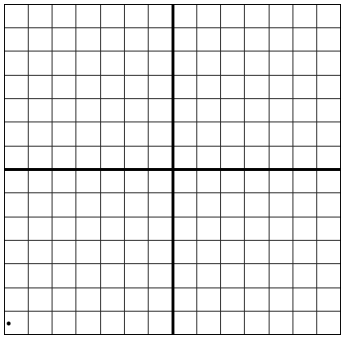
x-int: _____

VA: _____

Domain: _____

Range: _____

22. $y = \log(x + 1) + 2$



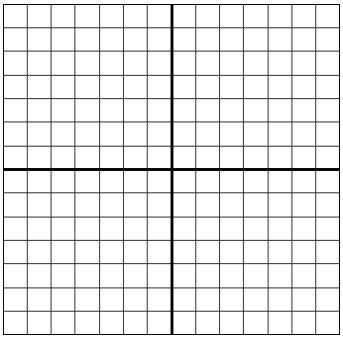
x-int: _____

VA: _____

Domain: _____

Range: _____

23. $y = -\log(x - 1) + 1$



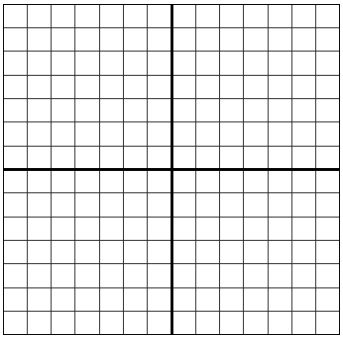
x-int: _____

VA: _____

Domain: _____

Range: _____

24. $y = -\ln(-x) - 3$



x-int: _____

VA: _____

Domain: _____

Range: _____