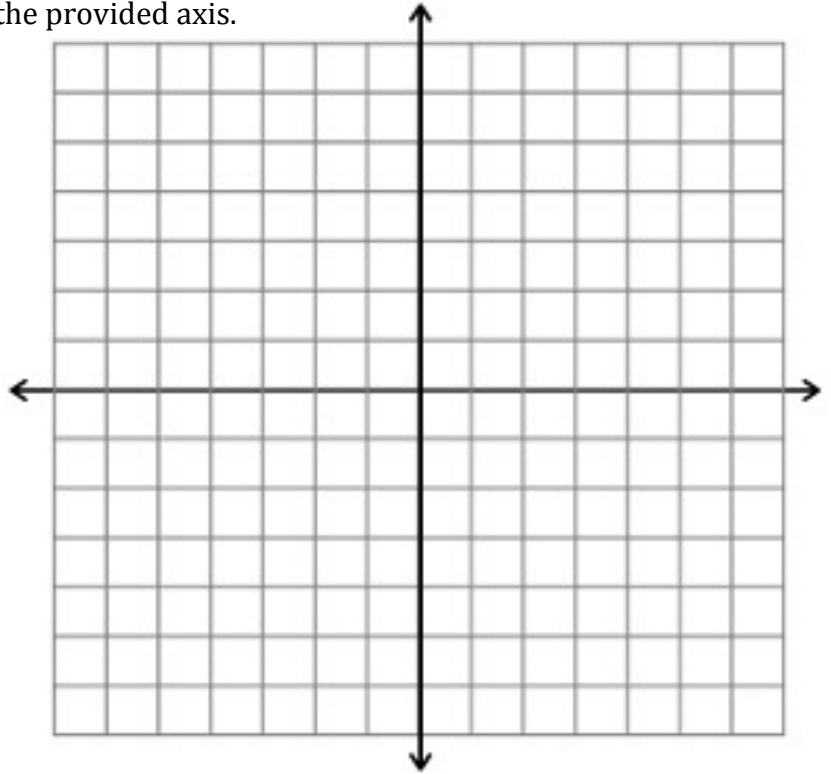


NAME: _____

CALCULUS: Chapter 0 Test

Graph the following function on the provided axis.

1. $y = \frac{3}{4}x + 1$



Identify **all intercepts** of the following functions.

2. $f(x) = x^2 + 9x + 14$

3. $f(x) = x^3 - 4x$

4. $f(x) = 3x + 2$

Evaluate $f(x) = x^2 + 2x - 1$ at the following values.

5. $f(-3)$

6. $f(5)$

7. $f(x + 4)$

Determine if the following functions have **x-axis symmetry**, **y-axis symmetry**, **symmetry to the origin**, **a combination of the three**, or **none**. Show all work.

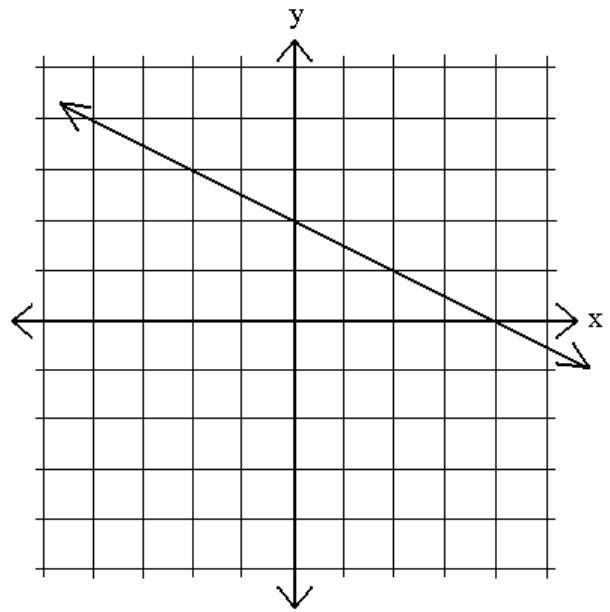
8. $y = x^2$

9. $y^4 = x + 2$

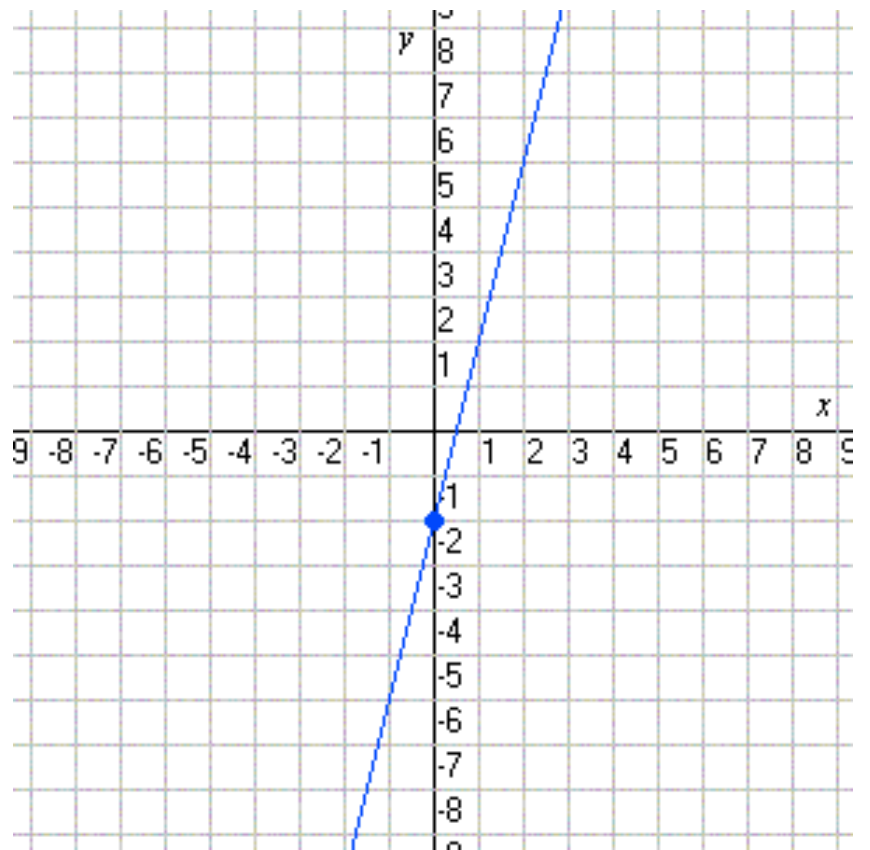
10. $y = 4x^3 + 2x$

Calculate the **slopes** of the following lines.

11.



12.



Find a line **parallel and perpendicular** to each given line.

13. $y = \frac{1}{2}x + 5$

14. $y = -\frac{5}{6}x + 3$

Determine the **domain** of the following functions.

15. $y = x^2 + 3x - 15$

16. $y = \sqrt{2x + 3}$

17. $y = \frac{x+7}{x-3}$