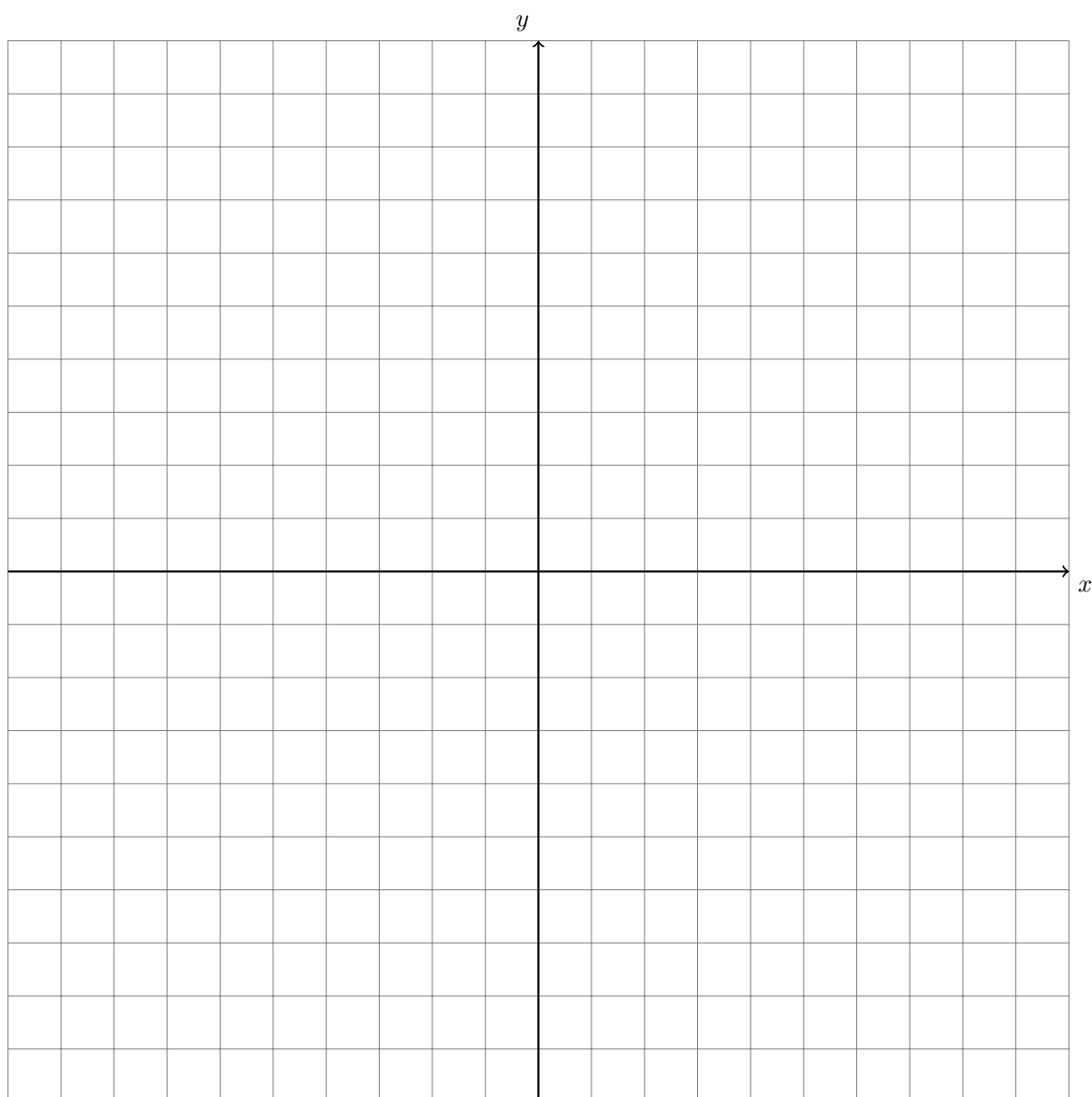


This practice exam is for review purposes only; the actual exam may differ in format and content. Use it as a study aid, and refer to the syllabus for specific details. Solutions with explanations can be found on my YouTube channel. - Robert Pearce

Name: \_\_\_\_\_

1. Plot the points:  $(-3, 6)$ ,  $(-2, 0)$ ,  $(-2, -5)$



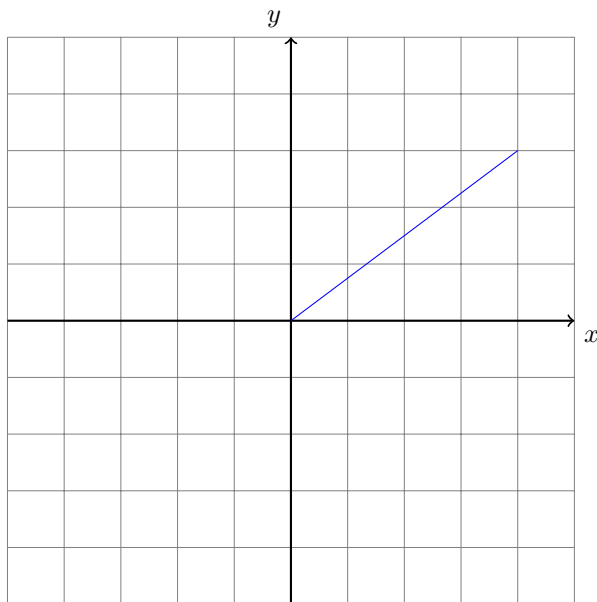
2. Find the distance between:  $(0, 0)$  and  $(1, 4)$

3. Find the midpoint of the line segment with points:  $(3, -3)$  and  $(7, 5)$

4. Solve:  $13 = 5 + 8(x - 18)$

5. Find an equation of a line passing through:  $(-3, 6)$  and  $(-1, 7)$

6. Find the slope of the line.



7. Find an equation of a line that is perpendicular to the line  $x - 9y = 4$ ; containing the point  $(0, 3)$

8. Determine the domain of:  $\frac{x-8}{x+70}$

9. Determine the domain of:  $\sqrt{5x - 20}$

10. Find the product:  $(3x - 5)(7x + 6)$

11. For the function  $f(x) = 4x^2 + 3x - 4$  find:

a)  $f(0)$

b)  $f(2)$

c)  $f(-2)$

d)  $f(-x)$

e)  $-f(x)$

f)  $f(x + 1)$

g)  $f(5x)$

h)  $f(x + h)$

12. Find the difference quotient of  $f(x) = x^2 - 4x + 3$