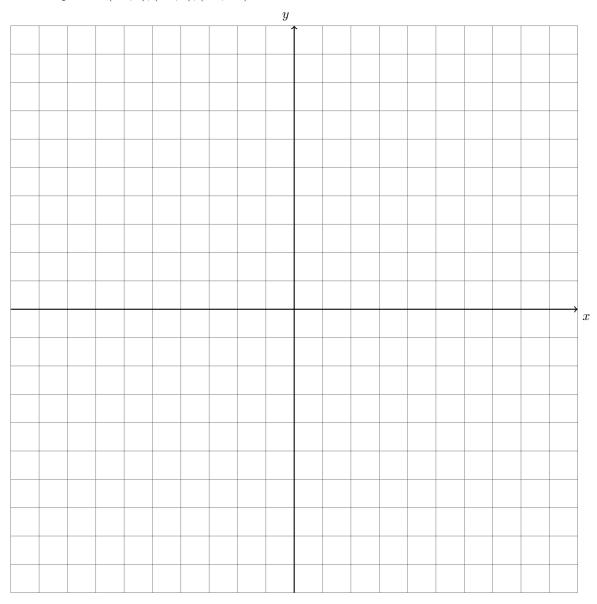
Precalculus I Sample Exam 1

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

NT :		
Name:		

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



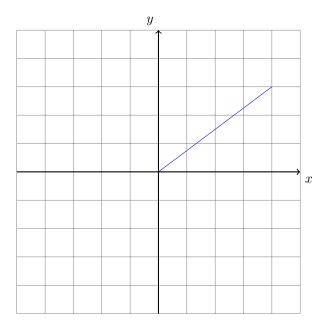
2. Find the distance between: (0,0) and (1,4)

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

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

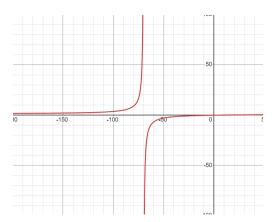
5. Find an equation of a line passing through: (-3,6) and (-1,7)

6. Find the slope of the line.

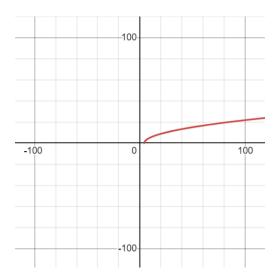


7. Find an equation of a line that is perpendicular to the line x - 9y = 4; containing the point (0,3)

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)

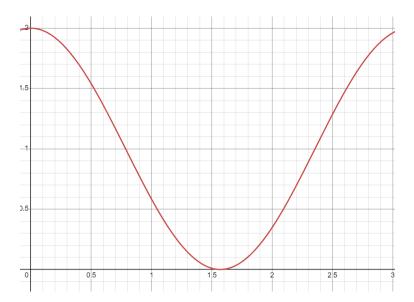
f) f(x+1)

g) f(5x)

h) f(x+h)

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

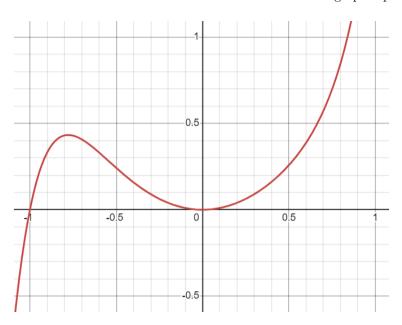
13. Look at the graph below and determine the intervals where the function is increasing and decreasing.



State the intervals where the function is:

- Increasing: $(\ldots, \ldots) =$
- Decreasing: $(\ldots, \ldots) =$

Look at the graph below and use the vertical line test to determine if the graph represents a function.



14. Solve the following inequality: $|2x - 5| \le 7$