Quiz 1

Name _____

• You have 20 minutes

- No calculators
- 1. (2 points) State the **domain** and **range** of the function whose graph is shown below.



2. (2 points) Suppose that f(x) is an **odd** function and g(x) is an **even** function, and define

$$h(x) = f(x) \cdot g(x).$$

If h(-2) = 5, what is h(2)?

3. (3 points) A rectangular field is to be enclosed by 100 m of fence. Find a mathematical model expressing the **area** of the field as a function of its **length**.

4. (3 points) State the **domain** of the function

$$F(x) = \sqrt{6 - 2x} + \sqrt{x^2 - 4}.$$