

Name:

Score	2	3	5	10
	P1	P2	P3	Q1

P1. Complete the following definitions.

(a) A function is **even** if...

(b) A function is **odd** if...

P2. Describe the set as a union of finite or infinite intervals.

$$\{x \in \mathbb{R} : 2|x^2 - x| \geq 3\}$$

P3. Find the composite function $f \circ g$ and determine its domain.

$$f(x) = \frac{1}{x^4 - x^2 - 1} \quad \text{and} \quad g(x) = \sqrt{x+1}$$