

PROBLEM SHEET 3

(1) domain of $f = \{x \neq 1\}$

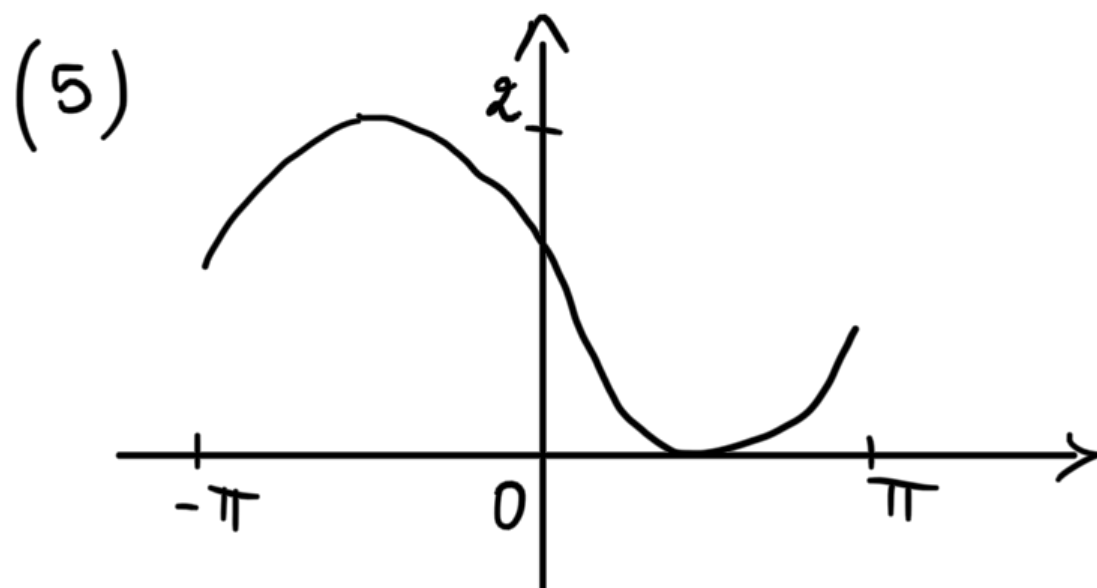
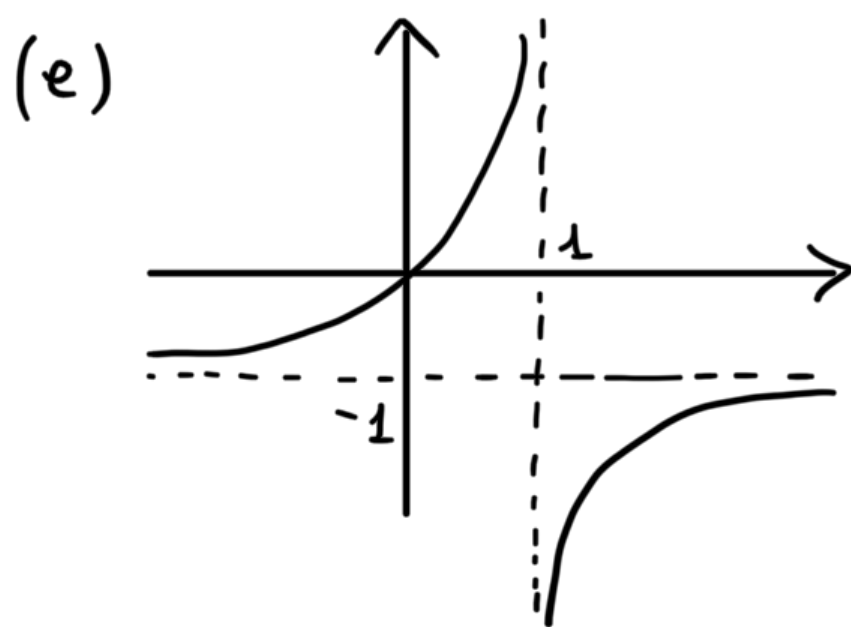
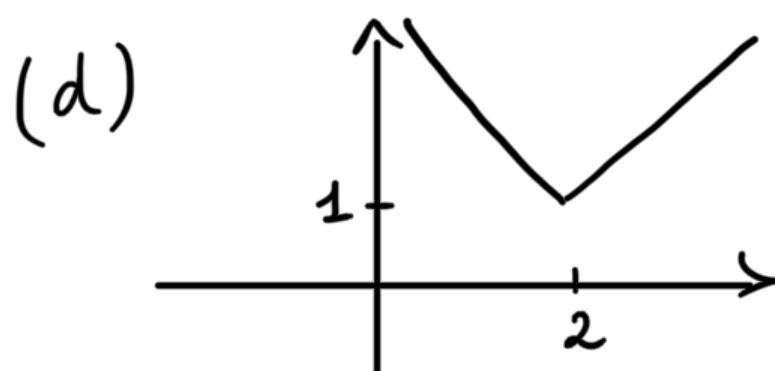
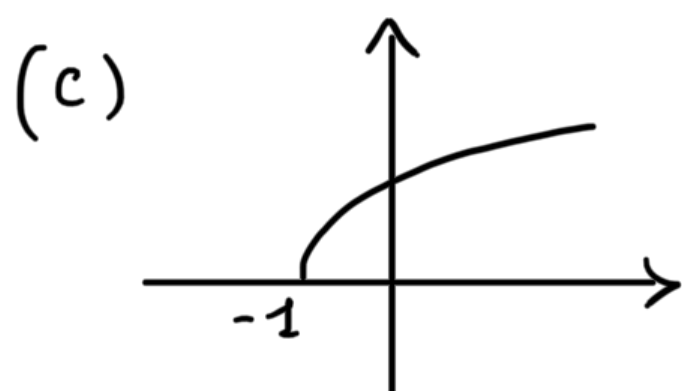
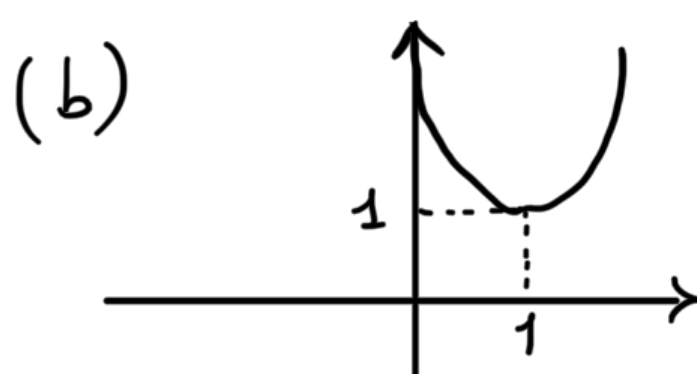
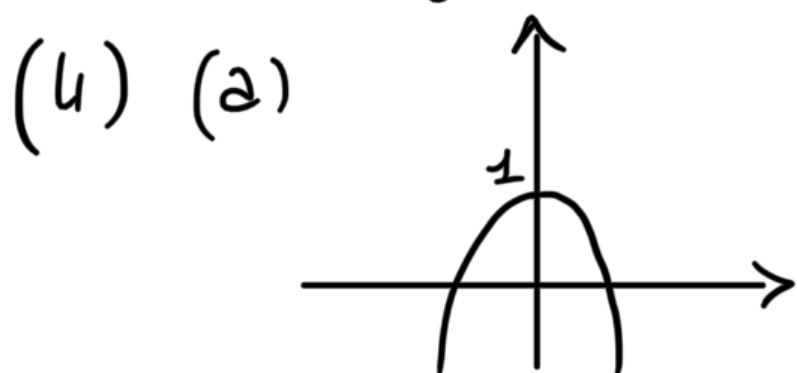
range of $f = (-\infty, 0) \cup (0, +\infty)$

domain of $g = [2, 3) \cup (3, +\infty)$

range of $g = (-\infty, 0) \cup (1, +\infty)$

(2) No, Yes, No, No

(3) no symmetries



domain = $[-\pi, \pi]$

range = $[0, 2]$

(6) $f(x) = 0 \quad \forall x \in \mathbb{R}$

16) $f(x) = \sin(x)$