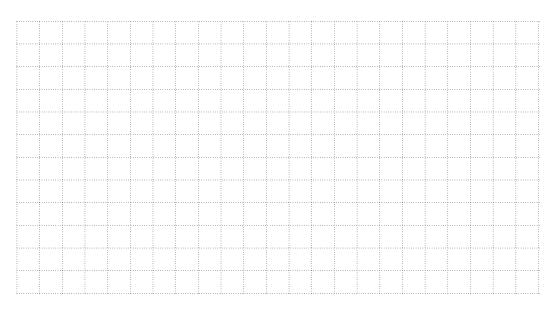
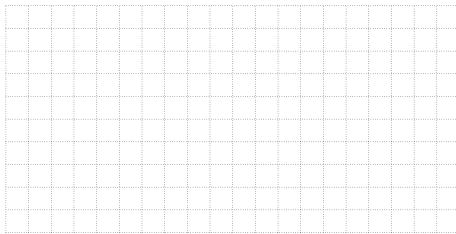
MODULE 6

RATIONAL FUNCTIONS AND INEQUALITIES

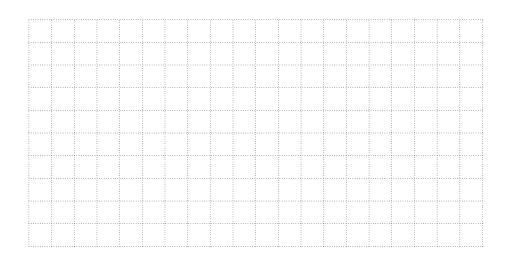
Name:	Points:
Exercise 1. Find the domain, vertical	asymptotes, removable singularities, horizontal
asymptotes, and x - and y -asymptotes. Sk	etch the graph.
(a) $f(x) = \frac{6-x}{x^2 - 6x + 8}$	



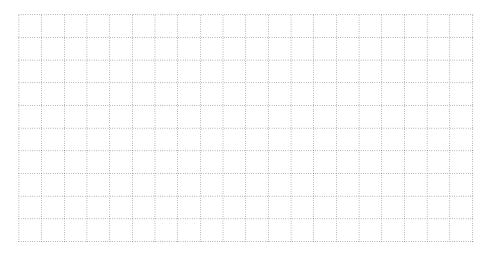
(b)
$$f(x) = \frac{x^2 - 9}{x^2 + 6x + 5}$$



(c)
$$f(x) = \frac{4-x^2}{x-1}$$



(d)
$$f(x) = \frac{x^2 - 2x - 3}{x^2 - 1}$$



Exercise 2. Solve for x.

(a)
$$x^2 - 5x + 5 > 0$$

(b)
$$\frac{x+7}{x^2-4} \ge 0$$

(c)
$$|2x+3| < 7$$