

Handout Section 4.4

If $f(x) = \frac{1}{x^2 - 1}$ **then find:**

- (a) the domain, the intercepts and the asymptotes;**

- (b) the intervals where the function is increasing and decreasing;
- (c) the points of local maximum and local minimum;

- (d) the intervals where the function si concave upward and concave downward;
- (e) the inflection points;

(f) sketch the graph.