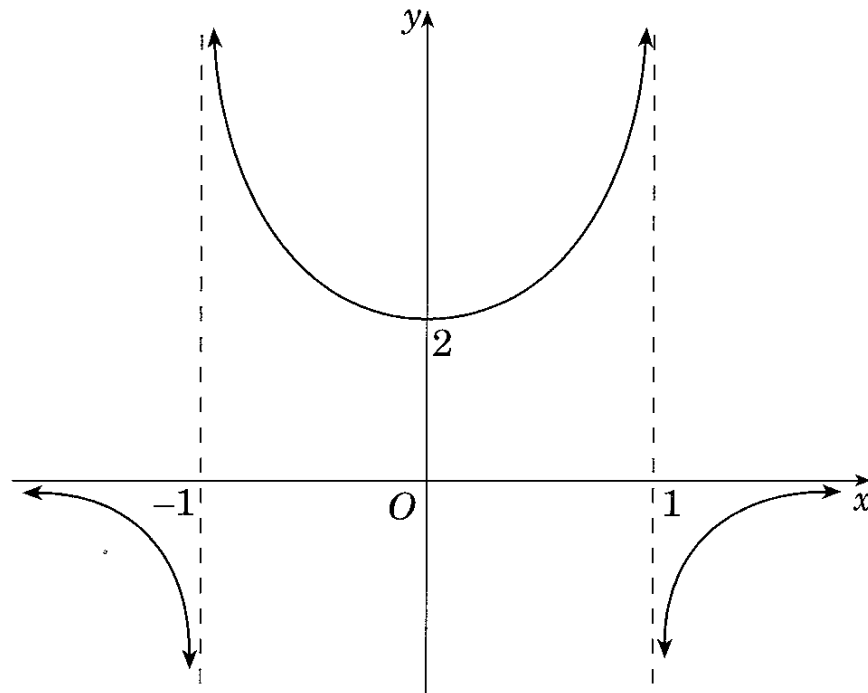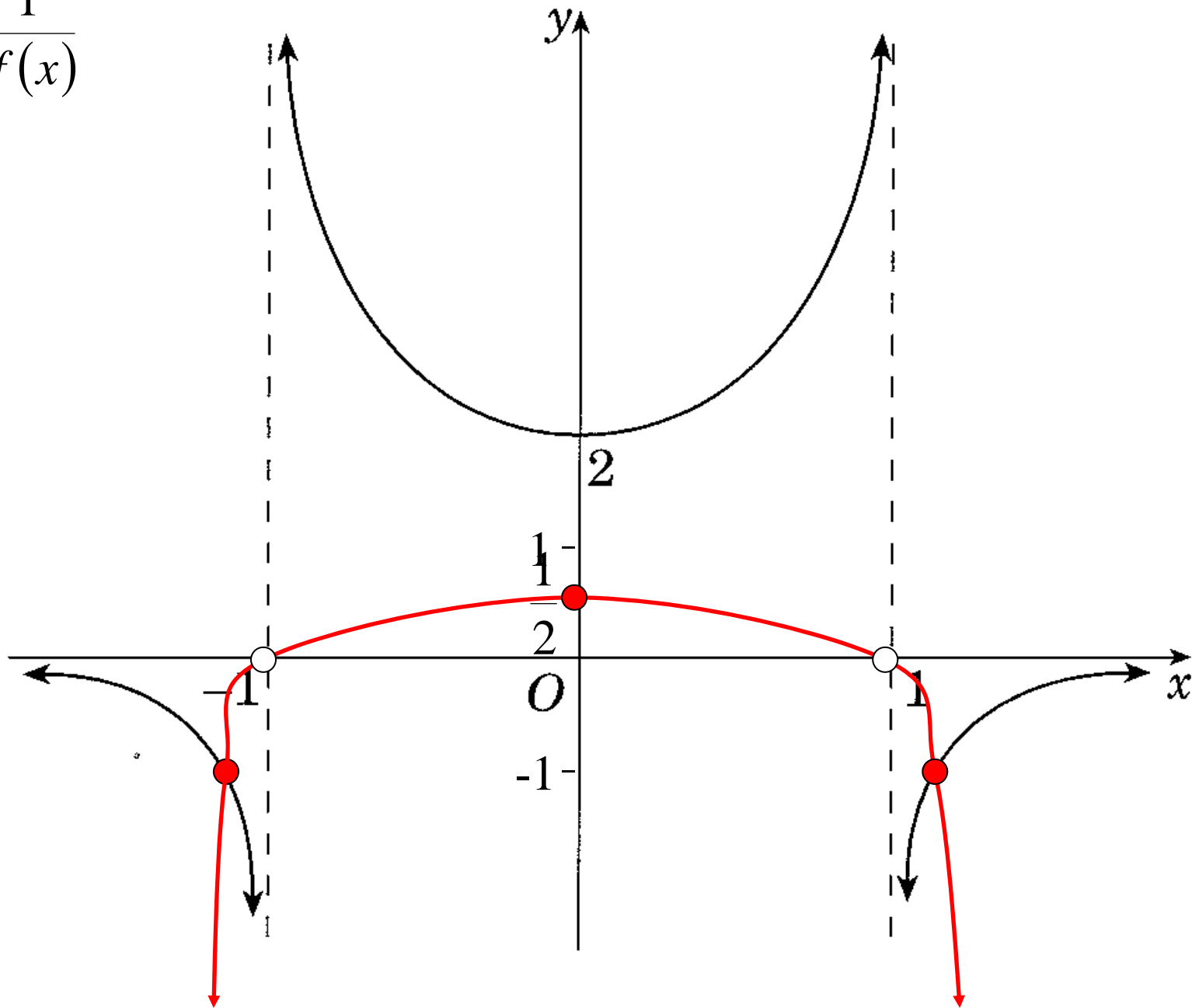# (K) Other Graphs

e.g. (*i*) (2003)

The diagram shows the graph of $y = f(x)$

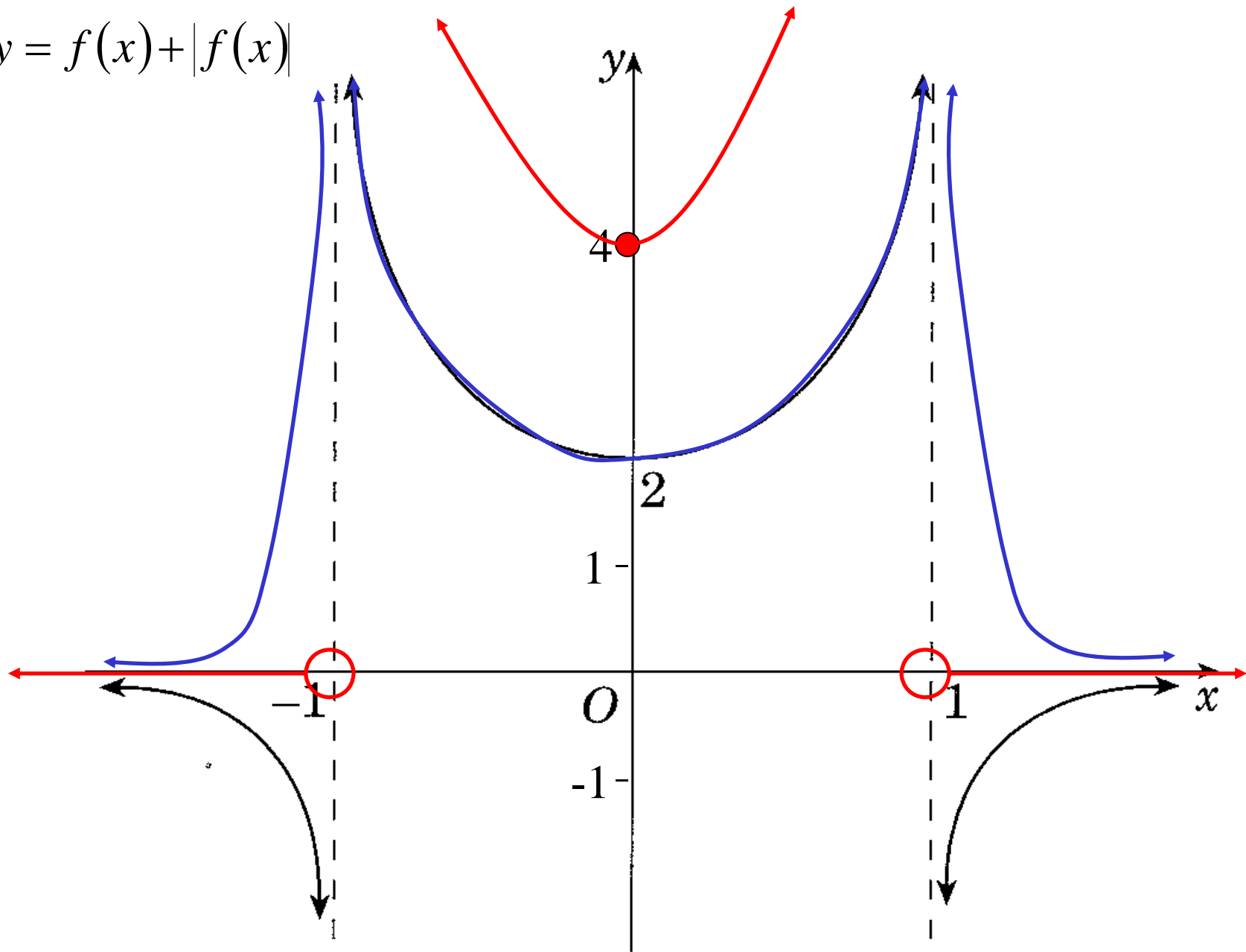
Draw separate sketches of the graphs of the following;

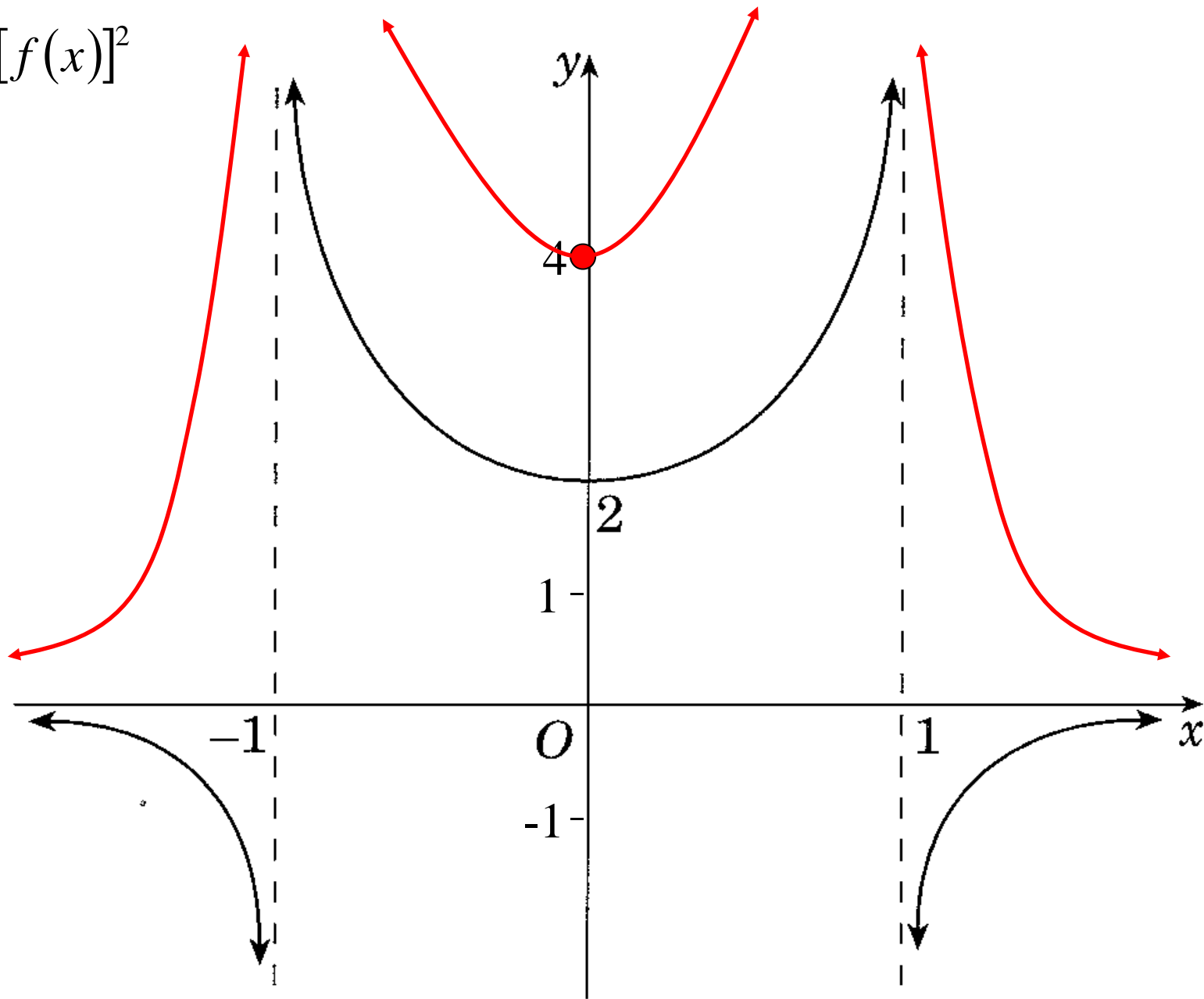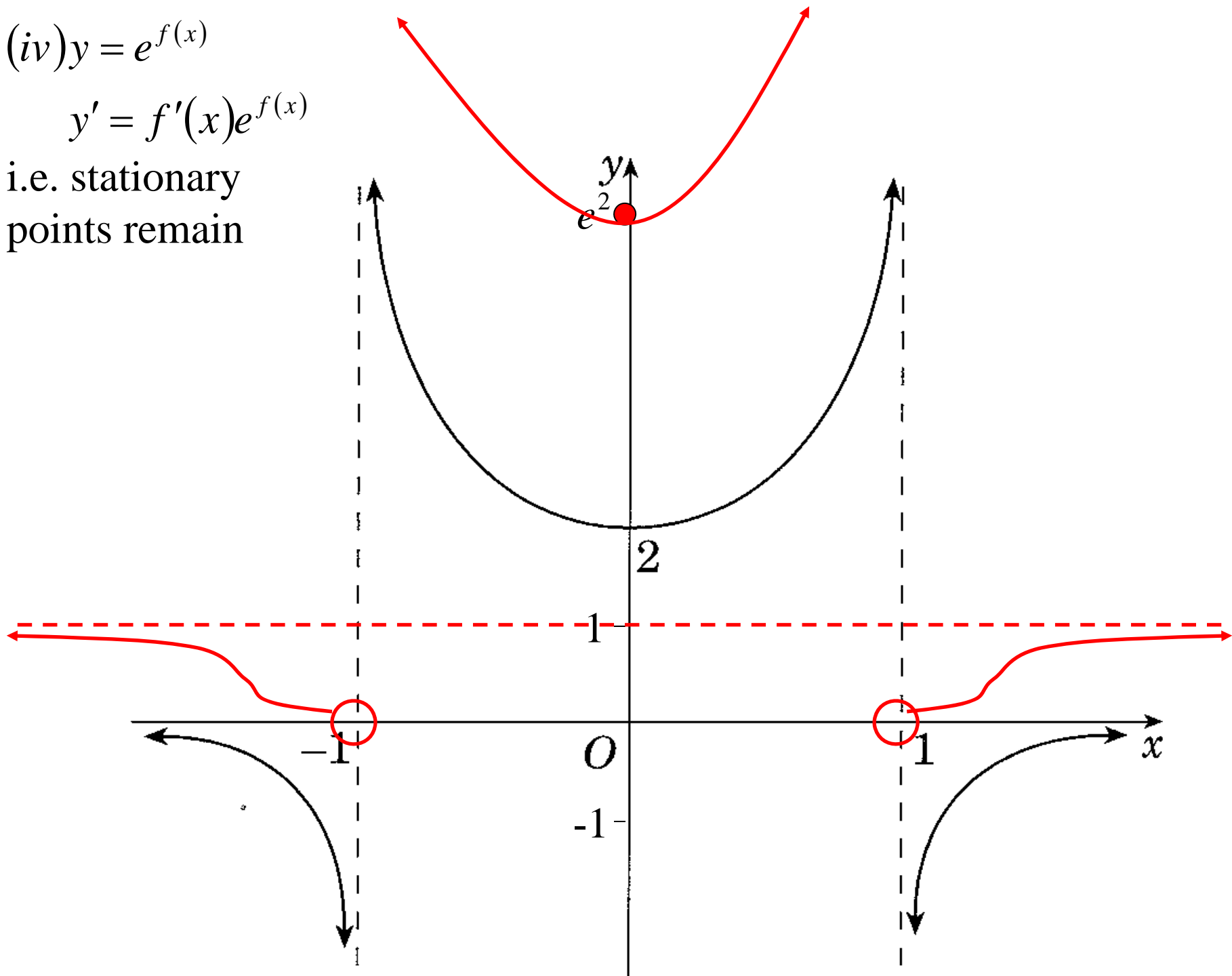$(i)\, y = \dfrac{1}{f(x)}$

$(ii) y = f(x) + |f(x)|$

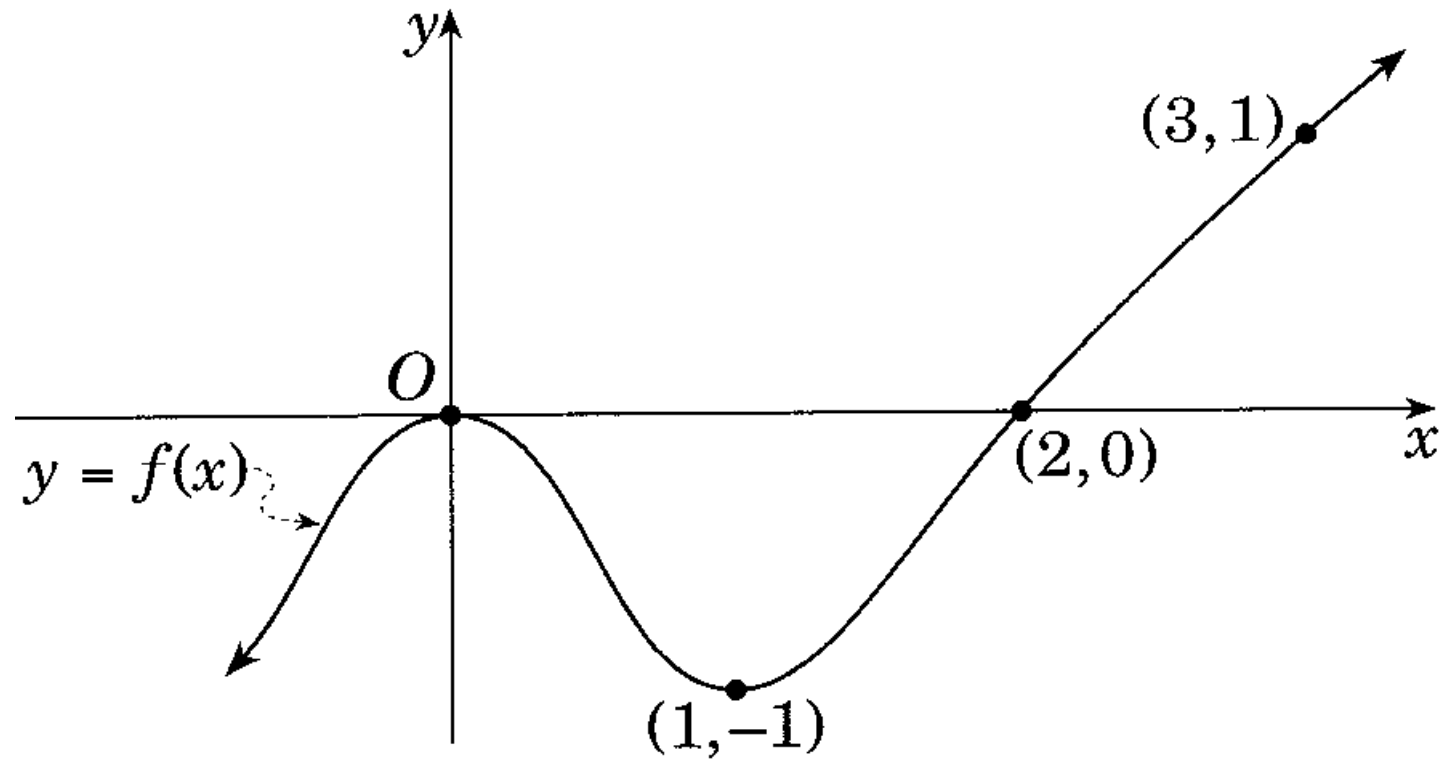$(iii) y = \left[f(x) \right]^2$

$(iv) \, y = e^{f(x)}$

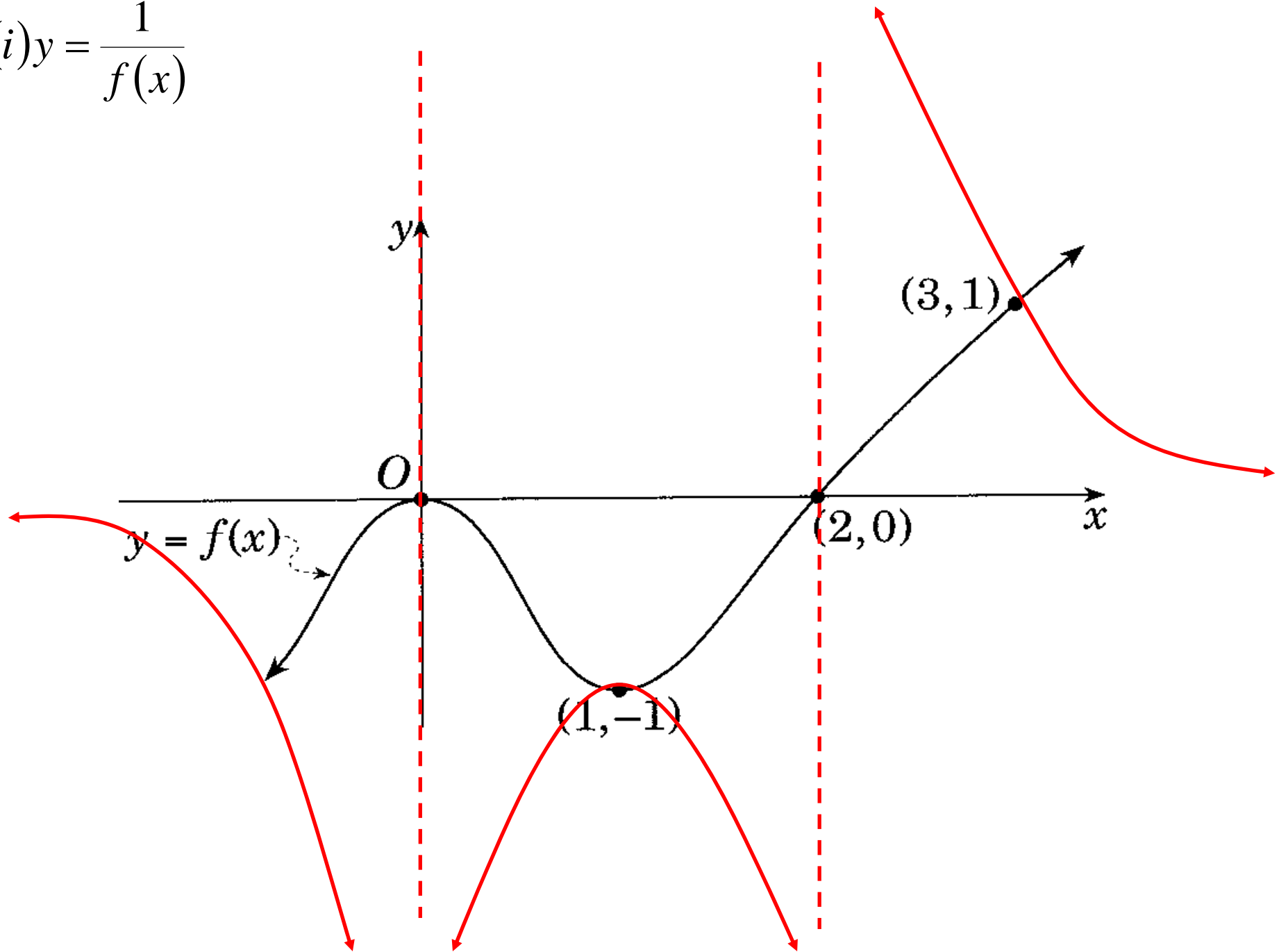$\quad y' = f'(x)e^{f(x)}$

i.e. stationary
points remain

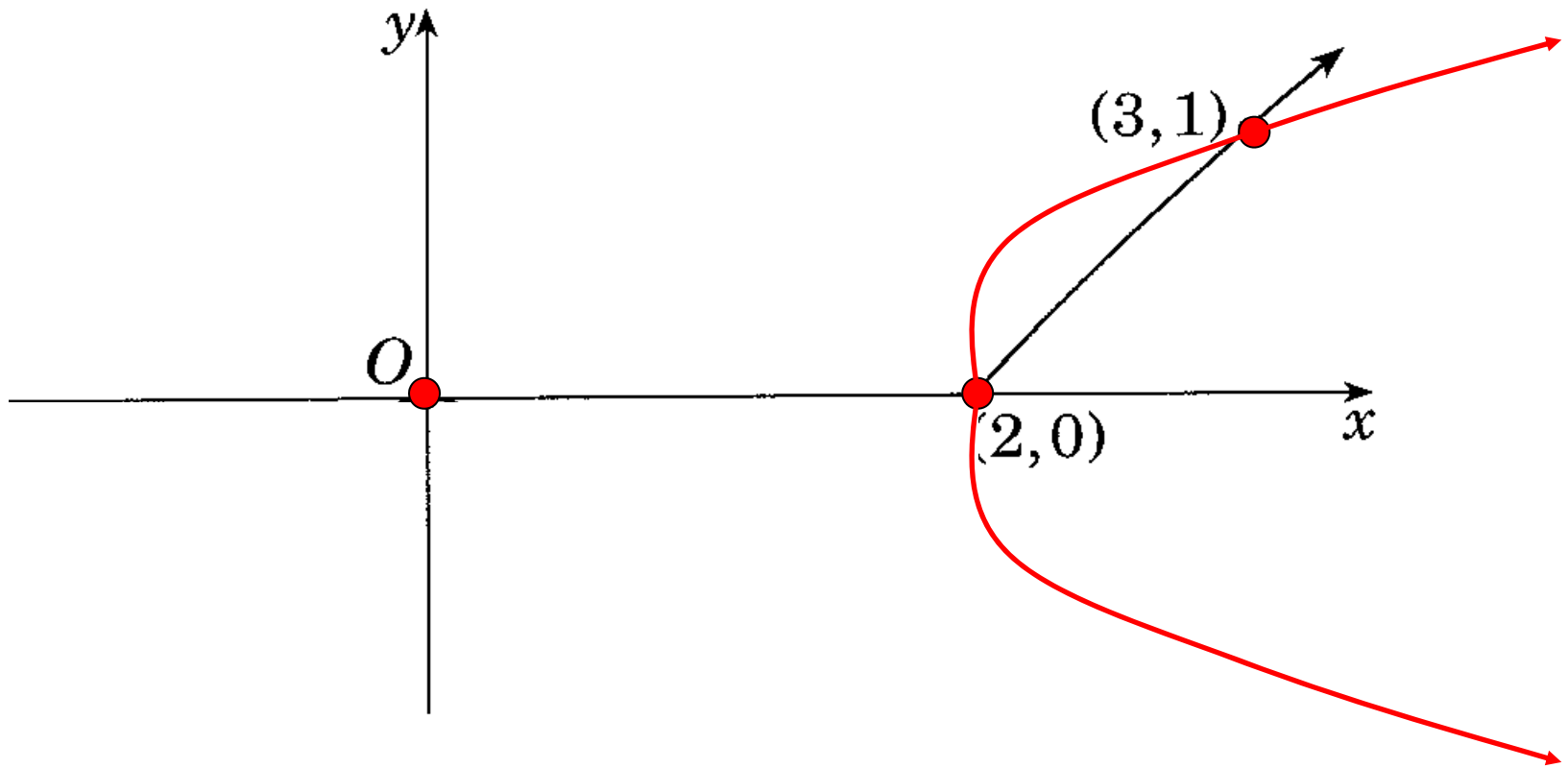e.g. (*ii*) (2002)

  The diagram shows the graph of $y = f(x)$

  Draw separate sketches of the graphs of the following;
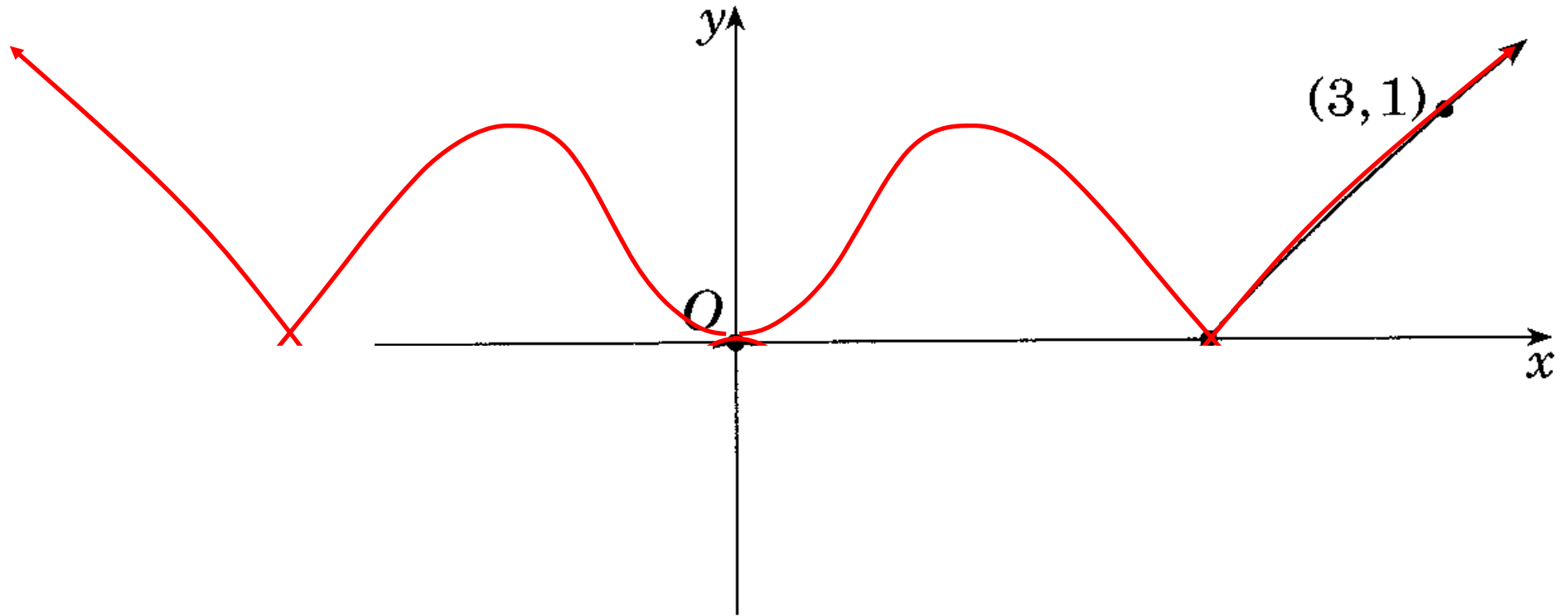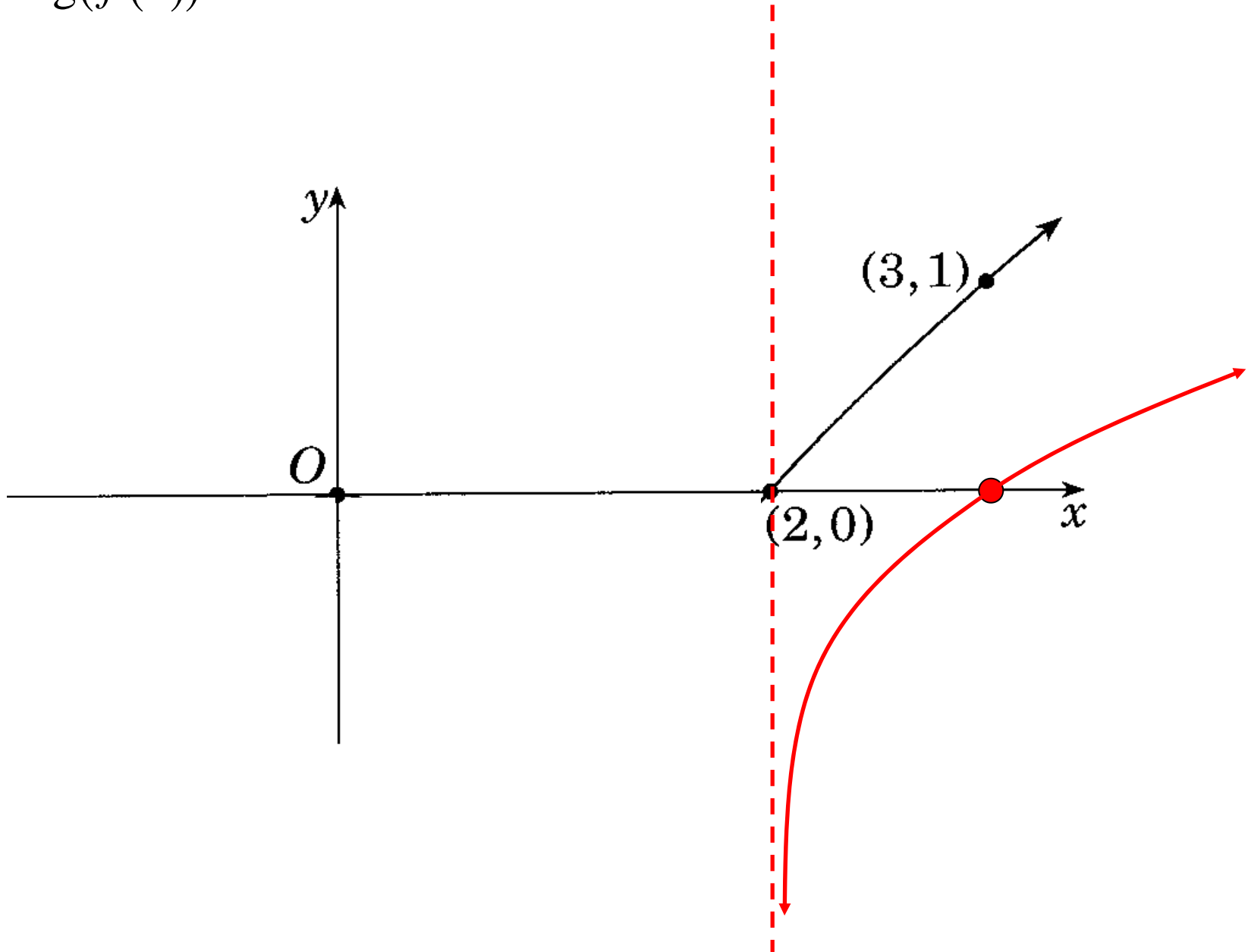
$(i) y = \dfrac{1}{f(x)}$

$y = f(x)$

$(3, 1)$

O

$(2, 0)$

$(1, -1)$

$(ii) y^2 = f(x)$

$(iii) y = \left| f\left(|x|\right) \right|$

$(3, 1)$

$(iv) y = \log(f(x))$

"Cambridge" Exercise 8H; 1 bd, 2, 3 bc, 4 bc, 9