

(i)
$$y = x^2 - 2x - 3$$

(ii)
$$y = x^2 - 2|x| - 3$$

(iii)
$$y = x^2 - x - |x| - 3$$
 (7)

(b) Solve the equation

$$x^2 - x - |x| - 3 = x + |x|$$
(4)