(iii) $f(x) = 1 - \sqrt{x+1}$ (12)

Step 1 $y = 1 - \sqrt{x+1}$

Step 2 Solve for x in terms of y

$$y - 1 = -\sqrt{x+1}$$

$$(y-1)^2 = (-\sqrt{x+1})^2 = x+1$$

$$x = (y-1)^2 - 1$$

Step 3 ~~Switch~~ Switch x & y.

$$y = (x-1)^2 - 1$$

domain $= (-\infty, 1]$

$=$ range of f

range $= [-1, \infty)$

$=$ domain of f.