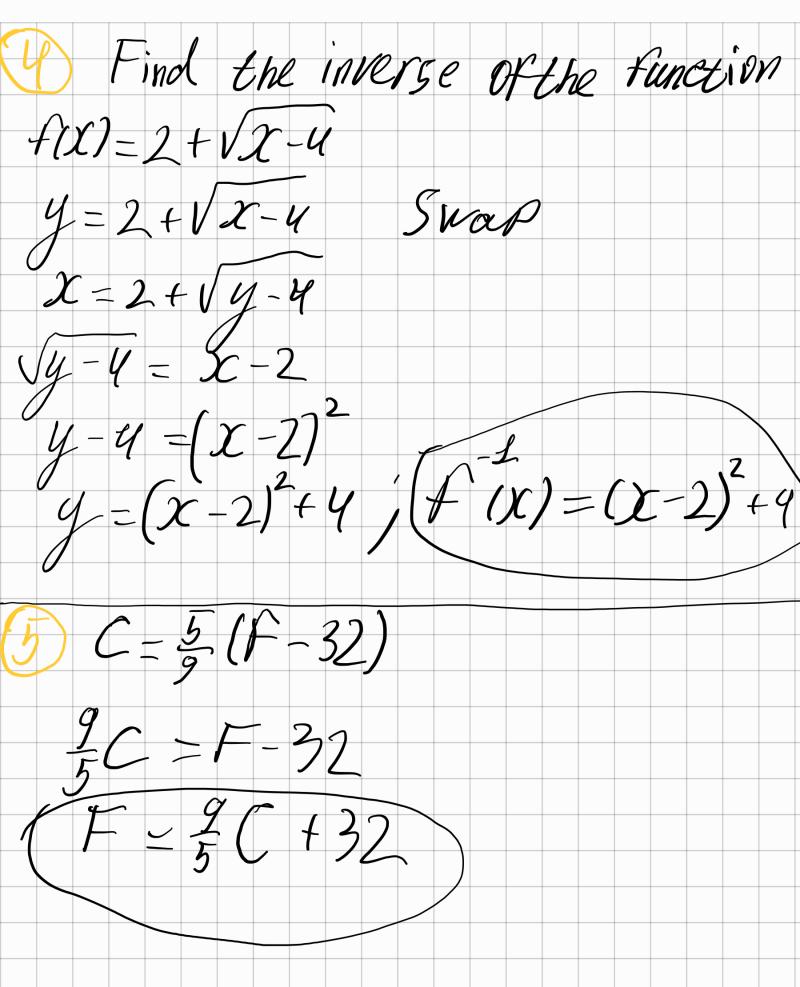
9y=x2+1 is at unction for one input one output 6) y=I+1 is not a function  $y = t \int \chi ds$ Which functions ove surjective 1) fiz > Z derined bg f(n) -3n Fis not surjective, because Zis The number, cenal n could be rational det ined by g=(123) g-15 not surjective 16 is missing

1 2 3 for each output there is at best one input. Which of them are injective fond n are injective If  $f(x) = \frac{f}{x+2}$  and  $g(x) = \frac{1}{x}-2$ is g = f of f(x)  $\frac{1}{x-2}$   $(SWaP) \qquad y = \frac{1}{x-2}$   $\chi = \frac{1}{y-2}$  $y = \frac{1}{x} - 2$   $f(y) = \frac{1}{y} - 2 = f(y)$ 



Find the domain and range 
$$g(x) = 2\sqrt{x} - 4$$
 | Domain  $x \in [4; 40]$ 
 $x = 4$  | Domain  $x \in [4; 40]$ 
 $x = 4$  | Hange  $g(x) \in [0; +\infty]$ 
 $x = -2(-2) = 1$ 
 $x$ 

$$x_{1} = \frac{2+8}{2} = 5$$

$$x_{12} = \frac{2-8}{2} = -3$$

$$x_{2} = \frac{2-8}{2} = -3$$

$$x_{32} = \frac{2+\sqrt{5}}{2}$$

$$x_{33} = \frac{2+\sqrt{5}}{2}$$

$$x_{32} = \frac{2+\sqrt{5}}{2}$$

$$x_{33} = \frac{2+\sqrt{5}}{2}$$

$$x_{33} = \frac{2+\sqrt{5}}{2}$$

$$x_{34} = \frac{2+\sqrt{5}}{2}$$

$$x_{35} = \frac{2+\sqrt{5}}{2}$$