Settimona: 1 <u>Argomenti:</u> Materia: Matematica. Classe: 5A Data: 15/09/25 Pag 1364 n 138  $f(x) = \frac{\sqrt{8} - 2^{x-6}}{\sqrt{8}}$ (1) Dominio I) 2. En (x-2) >0 ±) 〈 x-2>○ 面) 【 V8' - 2<sup>x-6</sup> ≠ ○ 工)引: x>0 my 250 v x33 f2: ln(x-2)>0 m> x-2>1 m>x>3 Cn(1) II) 2-2>0 ~ x x x 2 IF)  $\sqrt{8} - 2^{x-6} + 0$   $\sqrt{2} + 2$   $\sqrt{2} + 2$   $\sqrt{2} + 2$   $\sqrt{2} + 2$  $Dom(f) = \{x \ge 3, x \ne \frac{15}{2}\}$ (2) Asse y: x=0 Impossibile Acce x: f(x) = y = 0 \[ \frac{\fir}\f{\frac{\frac{\frac}\frac{\frac{\frac{\frac}\firc{\frac{\f{ A = (3,0)  $\sim$  2  $\ln(x-2) = 0$   $\sim$  x = 0 Non accept. (n(x-2) = 0 mx=3 Accet.

(62: 
$$f(x) = |x| + 3$$
  $g(x) = h(x) + 1$   
(1)  $(f \circ g)(x)$   $(g \cdot f)(x)$   $e$  vertice the sono diverse  
(2)  $f \circ f^{-1}$   $(f \circ g)^{-1}$   
(1)  $(f \circ g)(x) = f(g(x)) = f(f(x) + 1) = \sqrt{f(x) + 1} + 3$   
 $(g \circ f)(x) = g(f(x)) = g(|x| + 3) = f((|x| + 3) + 1)$   
(2) Per calcular  $f^{-1}$  (Dose soints) of pane  $y = f(x)$   $e$  si vicuos to  $x$   
 $y = |x| + 3$   $|x| = y - 3$   $x = (y - 3)^2$   
Dumque  $f^{-1}(y) = (y - 3)^2$  cond escent  $(f \circ f^{-1})(y) = f((y - 3)^2) = \sqrt{(y - 3)^2} + 3 = y - 3 + 3 = y$   
Calculare  $(f \circ g)^{-1}$  done exists  $(g \circ g)^{-1} = g(g \circ g$ 



