(1)
$$f(x) = c - |x-2|$$
, $x \in (1,3)$, $y \in (1,3)$, $y \in (1,2)$
 $f(x) = c - |x-2|$, $y \in (1,2)$
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 $f(x) = c - |x-2|$, $y \in (1,2)$
 $f(x) = (1,$

-> provjeta: upr. ou drugo -> also uvrstino 1 unaramo dabiti 0; ou trece -> also uvistimo 3 norans dobiti 1

LY UVRSTIMO GRADIENE SLUBAJEVE!

25 × 53

 $x \ge 3$

d)
$$P(\frac{3}{2} < x < \frac{5}{2}) = F(\frac{5}{2}) - F(\frac{3}{2}) = ... = \frac{3}{4}$$
 $\Rightarrow \frac{5}{2}$ woraus uvistitu 3. 8māy, $a \stackrel{3}{=} u 2$, 8māy!!!

 $\Rightarrow 2$, uazin je iutegral $(\frac{5}{2}) + \frac{5}{4} + \frac$

Tocka T na sreću nuntar jednakókracnog trounta osnovice 6 1 krahova 5. Senéver. X je udaljenost tocke do visine spustene na Osnovicu, Izr. E(x).

-> treba nam fia gustoce i fia razdiobe

Auch A, pola assource

2)
$$-320 \times <0$$
; $F(x)=0$
 $-320 \times >3$; $F(x)=1$
 $-320 \times <0$; $F(x)$

$$7 \neq \alpha \times \in (0,3)$$
:
$$F(x) = P(X < x) = \frac{\omega(9x)}{\omega(-2)} = \frac{\frac{1}{2}(6.4) - 2 \cdot \frac{1}{2}(3-x) \cdot \frac{4}{3}(3-x)}{\frac{1}{2}(6.4)}$$

$$\frac{3-x}{3} = \frac{4}{4}$$

$$y = \frac{4}{3}(3-x)$$

$$y = \frac{4}{3}(3-x)$$

$$y = \frac{4}{3}(3-x)$$

$$F(x) = \frac{-x^{2}}{9} + \frac{2}{3}x$$
, $x \in (0,3)$
 $f(x) = F'(x) = -\frac{2}{9}x + \frac{2}{3}$, $x \in (0,3)$

$$F(x) = \int_{x}^{x} f(x) dx = \int_{x}^{x} (-\frac{2}{5}x + \frac{2}{3}) dx = ... = 1$$

$$y = \psi(x)$$

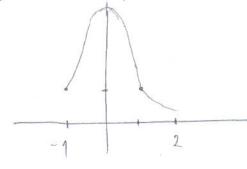
$$g(y) = f(x) \cdot \left| \frac{dx}{dy} \right| \quad x = \psi^{-1}(y) \Rightarrow \text{inversua} \quad f(a), \text{ also } \phi(x) = \psi(x).$$

$$g(y) = f(x) \cdot \left| \frac{dx}{dy} \right| \quad x = \psi^{-1}(y) \Rightarrow \text{inversua} \quad f(a), \text{ also } \phi(x) = \psi(x).$$

-> injekcija: surjehcija i bijekcija (surjekcija uvijek, prepoznati bijekcija)

(3)
$$f(x) = \frac{x}{6} + \frac{1}{4}, x \in (-1, 2)$$

I) uacrtati y= x2



-> INJEKCYA: SVAZI X mora dati razliciti y - Yza x=-1 i x=1 isti y

$$y \in (-1,0)$$
 $y \in (1,+00)$

$$y = \frac{1}{x^2} = 2 \times = \pm \sqrt{\frac{1}{y}}$$

Bit Ba Fustoce work

$$2) \times \in (0,2)$$

$$y \in (\frac{1}{4}, +\infty)$$

$$g(y) = \begin{cases} 92 & 1 & y \in (4,1) \\ 91+92 & y \in (1,+\infty) \end{cases}$$

$$gdy'e \text{ postaji pregizi i}$$

$$kg'a \text{ fia unjedi gaje}$$

$$g(y) = \left[\frac{1}{6\sqrt{y}} + \frac{1}{4} \right] \cdot \frac{1}{2\sqrt{1y}} \quad y \in (4, 1)$$