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[youtube.com/watch?v=wzkcV6Y2yME](https://www.youtube.com/watch?v=wzkcV6Y2yME)

injektiv - "välkammad"
 surjektiv - "på"
 bijektiv - "omvändbar"

Funktion: Regel + definitionsmängd

- $f(x) = \sqrt{x-3}$, $x \geq 3$ definitionsmängd
 $f(7) = \sqrt{7-3} = \sqrt{4} = 2$ $\leftarrow D_f$
- $g(x) = x + \sin x$, $x \in \mathbb{R}$ ← reella tal
 \leftarrow tillåtet
- $h(x) = \sqrt{x-5}$, $x \geq 6$

OBS! $f(r) = \sqrt{r-3}$, $r \geq 3$

Konvention: $f(x) = \sqrt{x+2} + \frac{1}{x-6}$, $x \geq -2, x \neq 6$

Graf: $f(x) = x^2$, $-2 \leq x \leq 2$

$y = f(x) = x^2$

värdomängd $V_f = [0, 4]$

OBS!
 $x^2 + y^2 = 1$
 ej graf till $\frac{1}{y}$
 funktion $f(x)$

$f(x) = \begin{cases} x-1 & \text{då } x \geq 2 \\ -x^2 & \text{då } -1 \leq x < 2 \\ -1 & \text{då } x < -1 \end{cases}$

Graf: $y = f(x)$

$D_f = \mathbb{R}$

	Grundläggande begrepp
1,2	1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 1.10, 1.11
Funktioner	
1,2	1.12, 1.13, 1.14, 1.15, 1.16

Jonas Mansson

$e^{i\pi}$

Funktion:

regel + def. menge

$$f(x) = \sqrt{x-3}, \quad x \geq 3$$

$$f(7) = \sqrt{7-3} = 2$$

$$g(x) = x + \cos x, \quad x \in \mathbb{R}$$

$$h(x) = \sqrt{x-3}, \quad x \geq 6$$

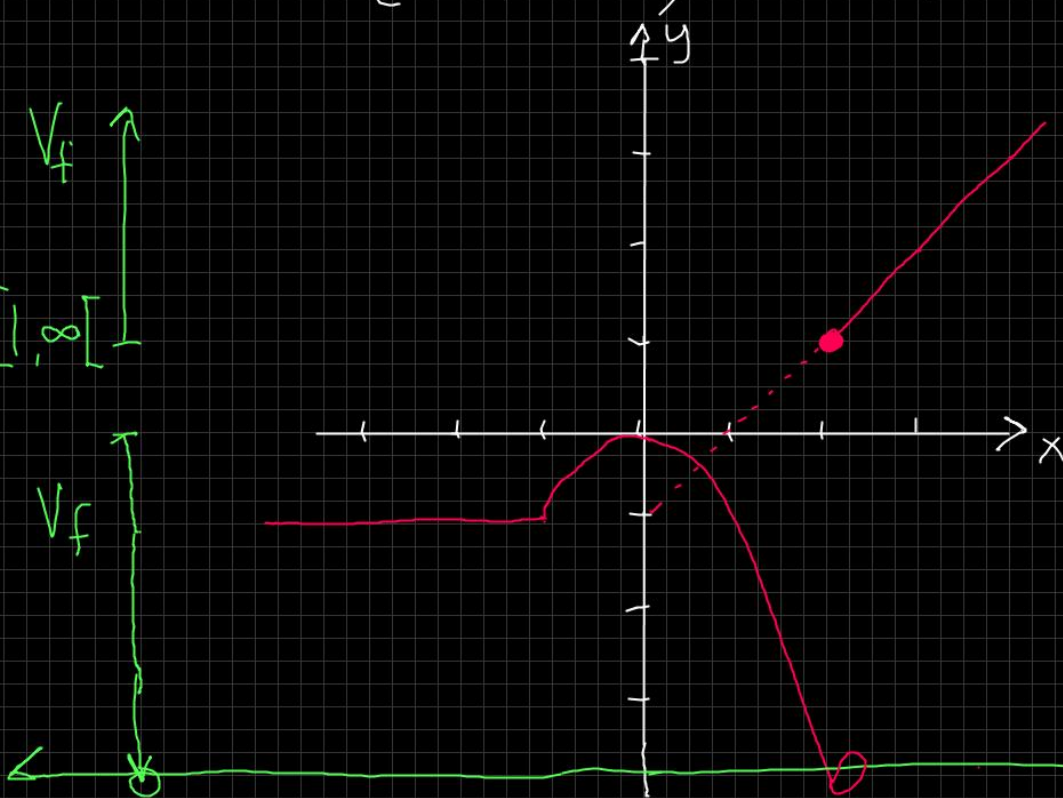
Definitionsmenge, D_f

$$f(x) = \sqrt{x-3}$$

Graf

$$f(x) = \begin{cases} x-1 & , \quad x \geq 2 \\ -x^2 & , \quad -1 \leq x < 2 \\ -1 & , \quad x < -1 \end{cases}$$

$$y = f(x)$$



$$V_f =]-4, 0] \cup [1, \infty[$$

$$D_f =]-\infty, \infty[$$

$\bar{E}(x)$ $f(x) =$

