Codominio di una funzione

	calcolare i codomini delle seguenti funzioni	
1	$y = x^2 - x + 1$	$y \geq \dfrac{3}{4}$
2	$y = -2x^2 + 3x - 10$	$y \leq -\dfrac{71}{8}$
3	$y = \sqrt[3]{7}\,x - \cos\dfrac{\pi}{7}$	$\mathbb{R}$
4	$y = \left(x - \dfrac{3}{4}\right)^2$	$\mathbb{R}^+$
5	$y = \dfrac{2x + 5}{4}$	$\mathbb{R}$
6	$y = \dfrac{|2x| + 5}{4}$	$y \geq \dfrac{5}{4}$
7	$y = |x|$	$\mathbb{R}^+$
8	$y = |-x|$	$\mathbb{R}^+$
9	$y = -|x|$	$\mathbb{R}^-$
10	$y = \dfrac{2}{x - 2}$	$\mathbb{R} - \{0\}$
11	$y = \dfrac{3}{x} + x$	$y \leq -2\sqrt{3} \ \lor \ y \geq 2\sqrt{3}$
12	$y = \dfrac{x - 3}{x + 3}$	$\mathbb{R} - \{1\}$
13	$y = \sin^2 x$	$0 \leq y \leq 1$

14	$y = \cos^3 x$	$-1 \le y \le 1$
15	$y = (1 + \tan^2 x)\cos^3 x$	$-1 \le y \le 1$
16	$y = \dfrac{x\sin\left(\frac{\pi}{3}\right) + \cos\left(\frac{\pi}{6}\right)}{\tan\left(\frac{\pi}{9}\right)}$	R
17	$y = e^{x^2 - 1}$	$y \ge \dfrac{1}{e}$
18	$y = \ln(\ln(x))$	R
19	$y = \ln(x^2 - 9) - \ln(x^2 + 9)$	R^-
20	$y = (e^x)^{1/x^2}$	$R^+ - \{1\}$
21	$y = 6x^4 + 2x^3 - 6x^2 - 3x$	$y \ge -\sqrt{2} - \dfrac{3}{2}$
22	$y = \sqrt{3}\,x^3 - \sqrt{2}\,x^2 - x - 1$	R
23	$y = x \sin x$	R
24	$y = |x|\sin^2 x$	$y \ge 0$
25	$y = 1 - e^{-1/x^2}$	$0 < y \le 1$
26	$y = x^x$	$y \ge \dfrac{1}{e^{\frac{1}{e}}}$

27	$y = \dfrac{\ln x}{x}$	$y \leq \dfrac{1}{e}$
28	$y = |x|(1 + \sqrt{\cos(2\pi x) - 1})$	N
29	$y = \arctan x \, \sin x$	$-\dfrac{\pi}{2} < y < \dfrac{\pi}{2}$
30	$y = \arctan\left(\dfrac{1}{x}\right) \arctan x$	$0 \leq y \leq \dfrac{\pi^2}{16}$
31	$y = \ln \dfrac{x}{|x|}$	$\{0\}$
32	$y = \dfrac{1}{(x^2 + 1) \sin x}$	$R - \{0\}$
33	$y = \dfrac{e^{-|x|}|x|}{x}$	$-1 < y < 0 \lor 0 < y < 1$
34	$y = \ln^2 x - \sqrt{\ln x}$	$y \geq -\dfrac{3}{4\sqrt[3]{4}}$
35	$y = x + \sqrt{\sin \pi x} - \sqrt{|\sin \pi x|}$	$2k \leq y \leq 2k+1 \ \ con \ \ k \in Z$
36	$y = \dfrac{|x| \sin \pi x}{|\sin \pi x|}$	$R - (Z - \{0\})$
37	$y = e^{\frac{1}{\log x}}$	$\{e\}$
38	$y = \sqrt{1 - x \ln x}$	$0 \leq y \leq \sqrt{1 + \dfrac{1}{e}}$
39	$y = x(\sqrt{x+1} + \sqrt{x-1})$	$y \geq \sqrt{2}$