

funzioni algebriche		
1	$y = \frac{2x - 1}{7 - x^2}$	$\mathbb{R} - \{-\sqrt{7}, +\sqrt{7}\}$
2	$y = x^3 - 2x^2 - 3x - 2$	\mathbb{R}
3	$y = \frac{1 - x^2}{x^2 + x + 3}$	\mathbb{R}
4	$y = \sqrt{x^2 - 2x - 2}$	$] -\infty, 1 - \sqrt{3}] \cup [1 + \sqrt{3}, +\infty[$
5	$y = \frac{x\sqrt{x - 3}}{x^2 - 16}$	$[3, 4[\cup]4, +\infty[$
6	$y = \frac{3x^2 - 2}{ x + 1 - 5}$	$\mathbb{R} - \{+4, -6\}$
7	$y = \sqrt{x + 1} + \sqrt{x^2 - 5}$	$[\sqrt{5}, +\infty[$
8	$y = \sqrt[5]{\frac{x^2 - 1}{x^2 - 4x + 3}}$	$\mathbb{R} - \{1, 3\}$
9	$y = \frac{\sqrt{x^2 + 3}}{ x^2 - 1 + 3x}$	$\mathbb{R} - \left\{ \frac{-3 - \sqrt{13}}{2}, \frac{3 - \sqrt{13}}{2} \right\}$
10	$y = \frac{x^2 + 5}{x^2 + x - 6}$	$\mathbb{R} - \{-3, 2\}$
11	$y = \sqrt{8 - x^2} + \sqrt{x - 1} + \sqrt{x}$	$[1, 2\sqrt{2}]$
12	$y = \sqrt{ 5 - 2x - 4 - x}$	$] -\infty, \frac{1}{3}] \cup [9, +\infty[$
13	$y = \frac{x + 9}{x^2 + 2x + 1}$	$\mathbb{R} - \{-1\}$
14	$y = \frac{x - 7}{x^2 - 2 x - 3}$	$\mathbb{R} - \{-3, +3\}$
15	$y = \frac{\sqrt{-1 + x}}{x^2 + x + 1}$	$[1, +\infty[$
16	$y = \sqrt{\frac{3x - x + 4 - 1}{6 - 1 - x^2 }}$	$] -\infty, -\sqrt{7}[\cup \left[\frac{5}{2}, \sqrt{7}[$
17	$y = \sqrt{\frac{2x + 3}{x - 1}}$	$] -\infty, -\frac{3}{2}] \cup]1, +\infty[$
18	$y = \frac{x^2 + 5}{x^3}$	$\mathbb{R} - \{0\}$
19	$y = \sqrt{\sqrt{x - 1} - x + 3}$	$[1, 5]$

20	$y = 3x^3 - 5x^2 + 1$	\mathbb{R}
21	$y = \frac{x+3}{x^2-1}$	$\mathbb{R} - \{-1, 1\}$
22	$y = \frac{3x-1}{x^2-5x+6}$	$\mathbb{R} - \{2, 3\}$
23	$y = \sqrt{1-x^2}$	$-1 \leq x \leq 1$
24	$y = \sqrt{\frac{x-1}{x(x+1)}}$	$-1 < x < 0; x \geq 1$
25	$y = \sqrt{2x-1+ x+1 }$	$x \geq 0$
26	$y = \sqrt{4-x^2}$	$-2 \leq x \leq 2$
27	$y = \frac{3}{x-1}$	$\mathbb{R} - \{1\}$
28	$y = \frac{1}{x^2}$	$\mathbb{R} - \{0\}$
29	$y = \sqrt{x^2-4}$	$x \leq -2; x \geq 2$
30	$y = \frac{1}{\sqrt{x^2+1}}$	\mathbb{R}
31	$y = \sqrt{\frac{2+x^2}{x}}$	$x > 0$
32	$y = \sqrt{\frac{x+1}{x-1}}$	$x \leq -1; x > 1$
33	$y = \sqrt{\frac{1+x^2}{-3}}$	<i>impossibile</i>
34	$y = \frac{x^2-x+1}{x^2-7x+12}$	$\mathbb{R} - \{3, 4\}$
35	$y = \frac{3x+1}{2x-1}$	$\mathbb{R} - \left\{\frac{1}{2}\right\}$
36	$y = \frac{3x+1}{x^3-x}$	$\mathbb{R} - \{-1, 0, 1\}$
37	$y = \sqrt{9-x^2} + \frac{5}{x}$	$-3 \leq x < 0; 0 < x \leq 3$
38	$y = \frac{1}{\sqrt{x^2-3x}}$	$x < 0; x > 3$

39	$y = \sqrt{ x }$	\mathbb{R}
40	$y = \frac{1}{\sqrt{ x-1 }}$	$\mathbb{R} - \{1\}$
41	$y = \sqrt{ x - x^2}$	$-1 \leq x \leq 1$
42	$y = \frac{2}{x-1} - \frac{1}{x} - \frac{1}{x^2-x}$	$\mathbb{R} - \{0, 1\}$
43	$y = \frac{x^2 - 5x + 6}{x^2 - 3x + 10}$	\mathbb{R}
44	$y = \frac{2x^2 - x + 3}{-3x^2 + 16x - 5}$	$\mathbb{R} - \left\{\frac{1}{3}; 5\right\}$
45	$y = \frac{3x^2 + 5x - 2}{3x^2 - x - 14}$	$\mathbb{R} - \left\{-2, \frac{7}{3}\right\}$
46	$y = \sqrt{x+3}$	$x \geq -3$
47	$y = \sqrt{1+x^2}$	\mathbb{R}
48	$y = \frac{x+1}{\sqrt{x^2-6x+9}}$	$\mathbb{R} - \{3\}$
49	$y = \frac{x-4}{ x+5 }$	$\mathbb{R} - \{-5\}$
50	$y = \frac{3x}{2 x -1}$	$\mathbb{R} - \left\{-\frac{1}{2}, \frac{1}{2}\right\}$
51	$y = \frac{x^2 + x - 1}{x + 2}$	$\mathbb{R} - \{-2\}$
52	$y = \frac{x^3 - 1}{x^2 + x - 2}$	$\mathbb{R} - \{-2; 1\}$
53	$y = x^3 - \frac{x}{2} + 1$	\mathbb{R}
54	$y = \frac{x+5}{x^4+2}$	\mathbb{R}
55	$y = \frac{x^2 - 3x}{x^3 - 8}$	$\mathbb{R} - \{2\}$
56	$y = \sqrt{x^2 - 1} + \sqrt{x - 5}$	$[5; +\infty[$

57	$y = \frac{x + \sqrt{x+1}}{\sqrt{x-2}}$	$]2; +\infty[$
58	$y = \frac{\sqrt[3]{x - \frac{1}{2}}}{x}$	$\mathbb{R} - \{0\}$
59	$y = \frac{\sqrt{x^2 + 3} - \sqrt{x+7}}{x^2 - 4x + 4}$	$] -7; +\infty[- \{2\}$
60	$y = \frac{1}{\sqrt[4]{x^2 - 5x + 6} - \sqrt{x-1}}$	$[1; 2] \cup [3; +\infty[- \left\{\frac{5}{3}\right\}$
61	$y = x^2 + x - 9 $	\mathbb{R}
62	$y = \frac{x}{ x-5 }$	$\mathbb{R} - \{5\}$
63	$y = \frac{x-1}{ x-3 + x+1 }$	\mathbb{R}
64	$y = \frac{3+x}{ x+2 + x^2 - x - 6 }$	$\mathbb{R} - \{-2\}$
65	$y = \frac{ x+5 }{ x-1 - x-2 }$	$\mathbb{R} - \left\{\frac{3}{2}\right\}$
66	$y = \frac{\sqrt{x+3}}{\sqrt{ x+1 -2}} + 1$	$]1; +\infty[$
67	$y = \frac{\sqrt{x^2 - 2x + 1} - 3}{\sqrt{ x } - \sqrt{x+1}}$	$\left[-1; -\frac{1}{2}\right] \cup \left[-\frac{1}{2}; +\infty\right[$
68	$y = \frac{ x-1 + \sqrt{x}}{\sqrt{3 - x^2 - 5x + 6 } - \sqrt{x+1}}$	$\left[\frac{5 - \sqrt{13}}{2}; \frac{5 + \sqrt{13}}{2}\right] - \{2\}$
69	$y = \frac{\sqrt{x + x^2 - 1 } - 3}{\sqrt{x + \sqrt{x-1}}}$	$[1; +\infty[$
70	$y = \sqrt{\frac{x^2 - x+3 }{\sqrt{x-1} + x+3 }}$	$\left[\frac{1 + \sqrt{13}}{2}; +\infty\right[$
71	$y = \sqrt{x-3}$	$R: x \geq 3$

72	$y = \sqrt{x^2 - 6x}$	$x \leq 0 \cup x \geq 6$
73	$y = \sqrt[3]{4 - 2x}$	\mathbb{R}
74	$y = \sqrt[4]{x^2 + 5}$	\mathbb{R}
75	$y = \sqrt[4]{\frac{x - x^2}{x^2 + 3}}$	$0 \leq x \leq 1$
76	$y = \sqrt[5]{\frac{x}{x^3 - 1}}$	$x \neq 1$
77	$y = \sqrt{x^3 - 3x} + \sqrt[3]{x^2 - 3x - 4}$	$x \geq 3 \cup x \leq 0$
78	$y = \frac{4 - 8x}{\sqrt{6 + x^2}}$	\mathbb{R}
79	$y = \sqrt[9]{\frac{5 - x}{ x - 1 }}$	$\mathbb{R} - \{1\}$
80	$y = \frac{3x^2 + 5x - 2}{\sqrt{x + 5} - 4}$	$x \geq -5 \cap x \neq 11$
81	$y = \frac{2x + x^2}{\sqrt{x^2 - 8}} + \sqrt{6 - x^2}$	\emptyset
82	$y = \frac{4x^2}{\sqrt{4 - x}} - \frac{2x}{\sqrt{2x - 3}}$	$\frac{3}{2} \leq x \leq 4$
83	$y = \sqrt[3]{\frac{3x - 6}{3 - x }} + \sqrt[5]{x - 2}$	$x \neq 2, \pm 3$
84	$y = \sqrt{\frac{x^3(x - 1)^2}{x + 3}}$	$x < -3 \cup x \geq 0$
85	$y = \frac{1}{\sqrt{ x }} + \frac{1}{ x^2 - 1 } + \sqrt{2 - x}$	$x \leq 2 \cap x \neq 0, \pm 1$
86	$y = \frac{\sqrt{16 - x^2}}{x^2 - 6x + 9} + \frac{x}{\sqrt{x^2 - 16}}$	\emptyset
87	$y = \sqrt{1 - \sqrt{x}} + \sqrt[3]{x + 1}$	$0 \leq x \leq 1$
88	$y = \frac{\sqrt{4x - 6}}{\sqrt[3]{x^2(x - 8)}} + \sqrt[3]{\frac{1}{4 - x }}$	$\frac{3}{2} \leq x < 4 \cup 4 < x < 8 \cup x > 8$
89	$y = \sqrt{x - \sqrt{2x + 3}} + \sqrt{x^3 - 3x^2}$	$x \geq 3$
90	$y = \sqrt[4]{x^5 + x^3} + \sqrt{\sqrt{3x - 2} - 5}$	$x \geq 9$

funzioni logaritmiche ed esponenziali		
91	$y = \log_2(x + 5) + 1$	$] -5; +\infty[$
92	$y = \log_2 \frac{x + 5}{1 - x^2}$	$] \infty, -5[\cup] -1, +1[$
93	$y = \log_{\frac{1}{2}} \frac{x - 3}{1 - x}$	$] 1, 3[$
94	$y = \frac{3 + \log_4(x^2 + 1)}{\log_x 5}$	$] 0; 1[\cup] 1; +\infty[$
95	$y = \sqrt{\log_{\frac{1}{3}}(x^2 - 3x - 1)}$	$\left[\frac{3 - \sqrt{17}}{2}, \frac{3 - \sqrt{13}}{2} \right[\cup \left] \frac{3 + \sqrt{13}}{2}, \frac{3 + \sqrt{17}}{2} \right[$
96	$y = \sqrt{\ln x^2 - 9 }$	$[-\infty, -\sqrt{10}] \cup [-2\sqrt{2}, 2\sqrt{2}] \cup [\sqrt{10}, +\infty[$
97	$y = \sqrt{\frac{\log_{\frac{1}{2}}(x - 3) + 2}{3 + \log_{x+1} 5}}$	$] 3; 7[$
98	$y = \log_{x-5}(x - 2)$	$] 5, 6 [\cup] 6, +\infty[$
99	$y = \log_3 \log_{\frac{1}{4}}(5x - 3)$	$] \frac{3}{5}, \frac{4}{5} [$
100	$y = \ln \ln(x^2 - 3)$	$] -\infty, -2 [\cup] 2, +\infty[$
101	$y = \ln \ln x $	$\mathbb{R} - \{0, \pm 1\}$
102	$y = \ln\left(2 - \left \frac{x}{1 - 3x}\right \right)$	$] -\infty, \frac{2}{7} [\cup] \frac{2}{5}, +\infty [$
103	$y = \frac{\left \ln \frac{x^2 + x - 1}{x - 2} - 1 \right }{\sqrt{x}}$	$] 0; \frac{1}{2}(\sqrt{5} - 1) [\cup] 2; +\infty [$
104	$y = \sqrt[4]{\log_{\frac{1}{2}}(x^2 - 4) - \log_{\frac{1}{2}}(x - 1)}$	$] 2, \frac{1 + \sqrt{13}}{2} [$
105	$y = \frac{\ln(2 - x - 3)}{\sqrt{\log_2 x - 2}}$	$] 4, 5 [$
106	$y = \ln \frac{x^2 - 9}{x - 2} + e^{\sqrt{x^4 - 16}}$	$] -3, -2 [\cup] 3, +\infty [$
107	$y = e^{\frac{x+3}{x-1}}$	$\mathbb{R} - \{1\}$

108	$y = 5^{2-x^2}$	$\mathbb{R} - \{\pm\sqrt{2}\}$
109	$y = 2^{\frac{x+1}{x^2-4}}$	$\mathbb{R} - \{\pm 2\}$
110	$y = e^{\frac{\sqrt{x^2-7x+12}}{x-5}}$	$] -\infty; 3[\cup [4; 5[\cup]5; +\infty[$
111	$y = \left(\frac{3}{4}\right)^{\sqrt{2-x^2}}$	$[-\sqrt{2}, +\sqrt{2}]$
112	$y = 3^{\frac{x}{5-\sqrt{x-x^2}}}$	$[0, 1]$
113	$y = \left(\frac{3x-4}{4x-1}\right)^{\frac{x-1}{x-3}}$	$] -\infty, \frac{1}{4}[\cup]\frac{1}{4}, 3[\cup]3, +\infty[$
114	$y = \sqrt{9 \cdot 3^{2x} - 82 \cdot 3^x + 9}$	$] -\infty, -2[\cup [2, +\infty[$
115	$y = \sqrt{2^{2x} - 2^x}$	$[0, +\infty[$
116	$y = \sqrt{\left(\frac{1}{2}\right)^{\frac{x-3}{x+5}} - \frac{1}{8}}$	$] -\infty; -9[\cup] -5; +\infty[$
117	$y = \frac{3^{2x} + 5^{\frac{3x}{x-1}}}{x + \frac{1}{2}}$	$\mathbb{R} - \left\{-\frac{1}{2}; 1\right\}$
118	$y = \frac{\sqrt[3]{e^{x+1} + 3}}{\sqrt{x^2 - 4x + 4}}$	$]0; 2[\cup]2; +\infty[$
119	$y = \frac{\frac{1}{3^{x+1}} - 5^x}{\left(\frac{1}{4}\right)^{x^2} - 1}$	$\mathbb{R} - \{-1; 0\}$
120	$y = \frac{2^x + 5}{\sqrt{\log_3(x - 2x^2) + 2}}$	$] \frac{1}{6}, \frac{1}{3}[$
121	$y = \frac{\sqrt[3]{2x^2 - x + 5}}{\sqrt{\ln x }}$	$] -\infty, -1[\cup]1 + \infty[$

122	$y = \frac{e^{-x^2+3x}}{\ln(x^2 - 2 + 3x)}$	$\left] -\infty, -\frac{\sqrt{21}+3}{2} \right[\cup$ $\left] -\frac{\sqrt{21}+3}{2}, -\frac{\sqrt{17}+3}{2} \right[\cup$ $\cup \left] \frac{3-\sqrt{17}}{2}, \frac{3-\sqrt{13}}{2} \right[\cup$ $\left] \frac{3-\sqrt{13}}{2}, +\infty \right[$
123	$y = \frac{2^{2x} - 6}{\ln x^2 - 8 }$	$\mathbb{R} - \{\pm 2\sqrt{2}; \pm 3; \pm\sqrt{7}\}$
124	$y = e^x \log_1(3-x) + \log_5(1-x^2) + \log_5 x$	$]0,1[$
125	$y = \log_7(e^{2x} - 5e^x + 6) + \log_7 x - 2 $	$]-\infty, \ln 2[\cup]\ln 3, 2[\cup]2, +\infty[$
126	$y = \frac{3^{2x} + 3^x - 1}{\ln \frac{x+1}{x}}$	$]-\infty; -1[\cup]0; +\infty[$
127	$y = \frac{\log_2(x+1) + 2^{\frac{x}{x-1}}}{2^{\sqrt{x}}}$	$[0; 1[\cup]1; +\infty[$
128	$y = \sqrt{\frac{\ln(2^x - 1)}{3^x - 1}}$	$[1; +\infty[$
129	$y = \frac{1}{3} \frac{\ln \ln \frac{1}{\sqrt{x^2 + 3x - 10}}}{\sqrt{ x-1 - x^2}}$	\emptyset
130	$y = \frac{\ln \sqrt{\frac{x(x-1)}{x+5}}}{\frac{3x}{e^{x+1} - 2}}$	$]-5; -1[\cup]-1; 0[\cup]1; +\infty[$
131	$y = \frac{3 + e^{\frac{x^2-3x+2}{x-6}}}{\log_3 \sqrt[4]{x^2 - \frac{1}{4}}}$	$]-\infty; -\frac{1}{2}[\cup]\frac{1}{2}; +\infty[- \left\{ \pm \frac{\sqrt{5}}{2}; 6 \right\}$
132	$y = \sqrt[3]{\frac{2^{\frac{x(x+2)}{2-x}} - 1}{\log_3(x - 1)}}$	$]-\infty; -1[\cup]1; +\infty[- \{\pm 2\}$
133	$y = \log_{\frac{1}{2}} \frac{x^2 - 1}{x^2 + 1} + 3^{\frac{x}{\sqrt{x-1}}} \log_2 \frac{1}{x+2} - \sqrt{2} e^{\frac{1}{\ln x}} \log_2 \sqrt{\frac{x}{x+1}}$	$]1; +\infty[$
134	$y = \frac{\ln \ln(x-1 - 5)}{1 - e^{\frac{x}{\sqrt{ x-1 -x}}}}$	$]7; +\infty[$
135	$y = \sqrt{\frac{\log_x x-5 }{e^{\ln \frac{2x(x-4)}{x+1}}}}$	$[4; +\infty[$

136	$y = \left(\log_2(x-3)\right)^{\frac{x+2}{x}}$	$]3, +\infty[$
funzioni goniometriche		
137	$y = \frac{3}{\operatorname{sen} x}$	$\mathbb{R} - \{k\pi\}, k \in \mathbb{Z}$
138	$y = \sqrt{\operatorname{sen} x + \cos x}$	$\left[-\frac{\pi}{4} + 2k\pi, \frac{3}{4}\pi + 2k\pi\right], k \in \mathbb{Z}$
139	$y = \ln \operatorname{arctg} x$	$]0, +\infty[$
140	$y = \sqrt{\frac{2 \operatorname{sen} x - 1}{\operatorname{cotg} x}}$	$\left[\frac{\pi}{6} + 2k\pi, \frac{\pi}{2} + 2k\pi\right[\cup \left[\frac{5}{6}\pi + 2k\pi, (2k+1)\pi\right[\cup \left[\frac{3}{2}\pi + 2k\pi, 2(k+1)\pi\right[\quad k \in \mathbb{Z}$
141	$y = \operatorname{arcsen} \frac{3}{x^2 - 4}$	$]-\infty, -\sqrt{7}] \cup [-1, +1] \cup [\sqrt{7}, +\infty[$
142	$y = \frac{3 \operatorname{sen} x + \cos x}{\sqrt[4]{ \operatorname{tg} x - \sqrt{3} }}$	$\mathbb{R} - \left\{\frac{\pi}{3} + k\pi, \frac{\pi}{2} + k\pi\right\}, k \in \mathbb{Z}$
143	$y = \log_7(\operatorname{cotg} x - \sqrt{3})$	$]k\pi, \frac{\pi}{6} + k\pi[, k \in \mathbb{Z}$
144	$y = \operatorname{arccos} \frac{1}{\operatorname{tg} x}$	$\left[\frac{\pi}{4} + k\pi, \frac{3}{4}\pi + k\pi\right], k \in \mathbb{Z}$
145	$y = \sqrt{\frac{\cos x}{1 - \cos 2x}}$	$]2k\pi, \frac{\pi}{2} + 2k\pi] \cup \left[\frac{3}{2}\pi + 2k\pi, 2\pi + 2k\pi\right], k \in \mathbb{Z}$
146	$y = \frac{2 \cos x - 1}{\operatorname{sen} x + 1}$	$\left[2k\pi, \frac{1}{2}\pi + 2k\pi\right[\cup \left[\frac{3}{2}\pi + 2k\pi, 2(k+1)\pi\right], k \in \mathbb{Z}$
147	$y = \sqrt{x} + \operatorname{arccos} x$	$[0, 1]$
148	$y = \operatorname{arctg} \left \frac{2-5x}{3-x} \right $	$\mathbb{R} - \{3\}$
149	$y = \log_3 \operatorname{arcsen}(e^x - 2)$	$] \ln 2, \ln 3]$
150	$y = \frac{\cos x}{\ln \cos x }$	$\mathbb{R} - \left\{k \frac{\pi}{2}\right\}, k \in \mathbb{Z}$
151	$y = \operatorname{arcsen}(1 - \sqrt{x+3})$	$[-3, 1]$
152	$y = 2\sqrt{\left \frac{\operatorname{sen} x}{1-2 \cos x} \right }$	$\mathbb{R} - \left\{\pm \frac{\pi}{3} + 2k\pi\right\}, k \in \mathbb{Z}$

153	$y = \log_3(\operatorname{tg}x + 3\operatorname{cotg}x - 4)$	$\left]k\pi, \frac{\pi}{4} + k\pi\right[\cup \left]2\operatorname{arctg} \frac{\sqrt{10}-1}{3}, \frac{\pi}{2} + k\pi\right[$ $k \in \mathbb{Z}$
154	$y = \sqrt{\frac{1 - \cos x}{1 - \sin x}}$	$\mathbb{R} - \left\{\frac{\pi}{2} + 2k\pi\right\}, k \in \mathbb{Z}$
155	$y = \operatorname{arccotg}(3x - 2\sqrt[4]{5-7x})$	$\left]-\infty, \frac{5}{7}\right]$
156	$y = \ln\left(1 - 2\cos\frac{x}{2}\right)$	$\left]\frac{2}{3}\pi + 4k\pi, \frac{10}{3}\pi + 4k\pi\right], k \in \mathbb{Z}$
157	$y = \frac{1 - 2\sin^2 x}{1 - 2\cos x}$	$\mathbb{R} - \left\{\frac{\pi}{3} + 2k\pi, \frac{5}{3}\pi + 2k\pi\right\}, k \in \mathbb{Z}$
158	$y = \operatorname{arcsen}\sqrt{x - 2x^2}$	$\left[0, \frac{1}{2}\right]$
159	$y = \sqrt{\operatorname{arcsen}(x - 2)}$	$[2, 3]$
160	$y = \sqrt{\sqrt{3}\sin^2 x - \sin x \cos x}$	$\left[\frac{\pi}{6} + k\pi, (k+1)\pi\right], k \in \mathbb{Z}$
161	$y = \operatorname{arccos} \frac{x+1}{x-2}$	$\left]-\infty, \frac{1}{2}\right]$
162	$y = \operatorname{arccotg}\sqrt{x^2 - 9}$	$]-\infty, -3] \cup [3, +\infty[$
163	$y = \frac{\sin 3x + 2}{\cos 2x - 1}$	$\mathbb{R} - \{k\pi\}, k \in \mathbb{Z}$
164	$y = \frac{5 - 2\cos\frac{x}{2}}{\sin\left(\frac{x}{2}\right) + \frac{\sqrt{3}}{2}}$	$\mathbb{R} - \left\{-\frac{2}{3}\pi + 4k\pi, \frac{8}{3}\pi + 4k\pi\right\}, k \in \mathbb{Z}$
165	$y = 2 - \frac{\cos x - \sqrt{3}}{\tan x + 1}$	$\mathbb{R} - \left\{-\frac{\pi}{4} + k\pi, \frac{\pi}{2} + k\pi\right\}, k \in \mathbb{Z}$
166	$y = \tan\frac{x}{3} - \frac{2+x}{2\operatorname{cot}x}$	$\mathbb{R} - \left\{\frac{3\pi}{2} + 3k\pi, \frac{\pi}{2} + k\pi\right\}, k \in \mathbb{Z}$
167	$y = \frac{3 - \tan x}{\sin 2x - \cos x}$	$\mathbb{R} - \left\{\frac{5\pi}{6} + 2k\pi, \frac{\pi}{6} + 2k\pi, \frac{\pi}{2} + k\pi\right\},$ $k \in \mathbb{Z}$
168	$y = \frac{2}{\sqrt{\cos\frac{x}{2} - \frac{1}{2}}}$	$\left]-\frac{2\pi}{3} + 4k\pi; \frac{2\pi}{3} + 4k\pi\right[, k \in \mathbb{Z}$
169	$y = \frac{\tan x \cos x}{1 - \sin x \operatorname{cot}x}$	$\mathbb{R} - \{2k\pi\}, k \in \mathbb{Z}$
170	$y = \frac{1 + \tan x}{\sqrt{\cos^2 x - 1}}$	\emptyset

171	$y = \cot \frac{x}{2} \left(1 - \frac{\tan^2 x}{\sqrt{1 - \tan x}} \right)$	$]-\frac{\pi}{2} + k\pi, k\pi[\cup]k\pi, \frac{\pi}{4} + k\pi[$
172	$y = \sqrt[4]{\frac{\sin x \cos x - 1}{\sqrt{3} - \cot x}}$	$]k\pi, \frac{\pi}{6} + k\pi[$
173	$y = \frac{\sqrt{\sin x \left(\cos x - \frac{1}{2} \right)}}{ \tan x - 1}$	$[2k\pi, \frac{\pi}{3} + 2k\pi] \cup \left[\pi + 2k\pi, \frac{5\pi}{3} + 2k\pi \right) +$ $-\left\{ \frac{3}{2}\pi + 2k\pi, \frac{\pi}{4} + k\pi \right\}$
174	$y = \frac{\arcsin x - \pi}{x^2 - 1}$	$] -1, 1[$

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175	$y = \sqrt[4]{\frac{x^2 - 4}{4 - 3x}}$	$] -\infty, -2] \cup \left[\frac{4}{3}, 2 \right]$
176	$y = \sqrt[3]{\frac{x^2 - 1}{ 4 - x^2 }}$	$\mathbb{R} - \{\pm 2\}$
177	$y = \frac{\sqrt{1 - 2x^2}}{\arccos(7x - 1)}$	$\left[0, \frac{2}{7} \right[$
178	$y = \frac{\arctg(\sqrt{x} - 5)}{\ln 5 - x^2 }$	$[0, 2[\cup]2, \sqrt{5}[\cup]\sqrt{5}, \sqrt{6}[\cup]\sqrt{6}, +\infty[$
179	$y = \sqrt{\frac{x^2 - 1}{2x + 1}} + \sqrt{\frac{3x}{2 - x^2}}$	$[1, \sqrt{2}[$
180	$y = \left(\frac{x + 1}{x^2} \right)^{\sin x}$	$[-1, +\infty[- \{0\}$
181	$y = \sqrt{\arcsen \ln(x + 2)}$	$[-1, e - 2]$
182	$y = 1 - \frac{\sin x}{e^{\cos^2 x} - 1}$	$\mathbb{R} - \{k\pi\}, k \in \mathbb{Z}$
183	$y = \frac{\sqrt{\log_2(x - 1)}}{\sin x (\cos x - 1)}$	$[2, +\infty[- \{k\pi\}, k \in \mathbb{N}$
184	$y = \frac{\sqrt{e^{\frac{1}{2} \tan x}}}{\log_3(x^2 - x) - 2}$	$] -\infty, 0[\cup]1, +\infty[-$ $-\left\{ \frac{\pi}{2} + k\pi, \frac{1 \pm \sqrt{37}}{2} \right\}, k \in \mathbb{Z}$
185	$y = \frac{\ln \sin x}{\ln \cos x}$	$]2k\pi, \frac{\pi}{2} + 2k\pi[, k \in \mathbb{Z}$

186	$y = \sqrt{\frac{x^3 - 1}{x^2 - 9x + 18}} + e^{\frac{1}{\tan x}}$	$[1, 3[\cup]6, +\infty[- \left\{k \frac{\pi}{2}\right\}, k \in \mathbb{N}$
186	$y = \frac{\tan \ln 2x}{\ln \tan 2x}$	$]k \frac{\pi}{2}, \frac{\pi}{8} + k \frac{\pi}{2}[\cup]\frac{\pi}{8} + k \frac{\pi}{2}, \frac{\pi}{4} + k \frac{\pi}{2}[- \left\{\frac{1}{2}e^{\frac{\pi}{2} + k\pi}\right\}, k \in \mathbb{Z}$
187	$y = \frac{\sqrt{ \cos x - \frac{1}{2}}}{e^{\frac{1}{\sin x}}}$	$[-\frac{\pi}{3} + k\pi, k\pi[\cup]k\pi, \frac{\pi}{3} + k\pi], k \in \mathbb{Z}$
188	$y = \ln\left(\sin x - \frac{\sqrt{3}}{2}\right) + \ln \sqrt{\cos x} - \ln\left(\tan \frac{x}{2} + 1\right)$	$] \frac{\pi}{3} + 2k\pi, \frac{\pi}{2} + 2k\pi[, k \in \mathbb{Z}$
189	$y = \sqrt{\log_{\frac{1}{2}} \arccos x + \log_2 \frac{\pi}{3}}$	$[\frac{1}{2}, 1[$
190	$y = \frac{\ln(\sin x - 1)}{\ln \sqrt{\cos x}}$	\emptyset
191	$y = \frac{\sqrt{\arcsin x - \frac{\pi}{3}}}{\ln x}$	$[\frac{\sqrt{3}}{2}, 1[$
192	$y = \frac{1}{2 \ln 3x - 1} + \ln \arcsin x$	$]0, \frac{\sqrt{e}}{3}[\cup]\frac{\sqrt{e}}{3}, 1[$
193	$y = e^{\frac{\tan x}{ \cos x - \frac{\sqrt{2}}{2}}}$	$\mathbb{R} - \left\{\frac{\pi}{2} + k\pi, \frac{\pi}{4} + k \frac{\pi}{2}\right\}, k \in \mathbb{Z}$
194	$y = \frac{\sqrt{\arcsin(2 x - 1)}}{\ln(2x^3 - x)}$	$[-\frac{\sqrt{2}}{2}, -\frac{1}{2}[\cup]\frac{\sqrt{2}}{2}, 1[$
195	$y = 1 - e^{ \sin x - 1} + e^{\frac{1}{\sqrt{1 - \tan x}}}$	$] -\frac{\pi}{2} + k\pi, \frac{\pi}{4} + k\pi[$
196	$y = \frac{x(x - 3)}{2 \arccos x - \pi}$	$[-1, 0[\cup]0, 1]$
197	$y = \sqrt{1 + \frac{\pi}{\arcsin x}}$	$]0, 1]$
198	$y = \frac{\sqrt[3]{3 - \arcsin x}}{\sqrt[4]{\arctan \frac{x}{2} + \pi}}$	$[-1, 1]$
199	$y = \frac{x - 1}{\pi - \arctan x }$	\mathbb{R}
200	$y = \ln(x^2 - x - 4) + \arccos \ln x$	$] \frac{1 + \sqrt{17}}{2}, e[$
201	$y = \arctan \sqrt{\frac{x^2 - 4}{x - 1}}$	$[-2, 1[\cup]2, +\infty[$