Studio di funzione – esercizi di riepilogo

studiare le seguenti funzioni

1	$y = \sqrt[3]{(x-2)(x-1)^2}$	2	$y = x^2 e^{-x}$	3	$y = \sqrt[3]{x^3+1}$
4	$y = \log_{\frac{1}{3}} \frac{1-x}{x+1}$	5	$y = (x^2-1)e^x$	6	$y = \frac{cos^2 x}{1+2senx}$
7	$y = \frac{\lvert 2-x \rvert}{\sqrt{x^2-5x+6}}$	8	$y = \frac{x^3}{2x^2-1}$	9	$y = \frac{x^2}{x^2-\lvert x+2 \rvert}$
10	$y = arcsen\sqrt{1-x^2}$	11	$y = x\sqrt{\frac{x}{4-x}}$	12	$y = \sqrt{\frac{1-senx}{1+senx}}$
13	$y = \sqrt{x} e^{-\frac{1}{x}}$	14	$y = -\frac{1}{3}x^3 + 5x^2 + 5x$	15	$y = ln\frac{x^2-9}{1-\lvert x \rvert}$
16	$y = \frac{x^2-1}{\lvert 2x-1 \rvert} + \frac{\lvert x-3 \rvert}{2x-1}$	17	$y = \frac{e^x-2}{\sqrt{3-x}}$	18	$y = -1 - log_3 \frac{x^2-2}{x^2-1}$
19	$y = ln\frac{1-senx}{2cosx-1}$	20	$y = e^{\frac{2}{\lvert x-2 \rvert - 2}}$	21	$y = \frac{x^2-5}{x-1}$
22	$y = x^3 - 7x - 6$	23	$y = \frac{\lvert x \rvert - 1}{\sqrt{x^2-1}}$	24	$y = \frac{2}{1-ln(x-1)}$
25	$y = \frac{3x+1}{2x^2+1}$	26	$y = xe^{\frac{x-1}{x+1}}$	27	$y = \frac{xlnx}{x^2-9}$
29	$y = \frac{1-cosx}{senx}$	29	$y = \frac{e^x-2}{e^x-1}$	30	$y = x^4 - 5x^2 + 4$
31	$y = \frac{ln(x-2)}{2-ln(x-2)}$	32	$y = \frac{e^x-1}{\lvert x-1 \rvert}$	33	$y = arctg\frac{x^2-1}{x}$
34	$y = \sqrt{2-x^3}$	35	$y = \frac{3x^2+1}{2x^3-x}$	36	$y = x - \sqrt{1-x^2}$
37	$y = \frac{tanx}{tanx-\sqrt{3}}$	38	$y = \left\lvert \frac{x^2-4}{1-x} \right\rvert$	39	$y = e^{\frac{x+1}{x}}$
40	$y = \frac{x^2-1}{x^3-8}$	41	$y = \frac{x+e^{-x}}{x-e^{-x}}$	42	$y = ln(e^{x^2}-1)$
43	$y = x - \sqrt{\frac{1}{2-x}}$	44	$y = \frac{2x^3}{2x^2-x-1}$	45	$y = \frac{sen2x}{1-senx}$
46	$y = x^2 e^{-x^2}$	47	$y = \sqrt{\frac{x^2-1}{2x}}$	48	$y = ln\frac{2x^2+11}{x^2-4}$
49	$y = e^{\frac{x}{2-x^2}}$	50	$y = \frac{2x^2+2x+8}{x^2-4}$	51	$y = arcsen\frac{1-x^2}{x^2-4}$

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