

## Esercitazione n. 10

**1)** Date le seguenti funzioni, dopo averle studiate, tracciare approssimativamente il loro grafico:

a)  $f : X \rightarrow f(x) = \frac{\sqrt{x+2}}{x-1} \in R$

b)  $f : X \rightarrow f(x) = \frac{x-1}{\sqrt{x^2-4}} \in R$

c)  $f : X \rightarrow f(x) = \log_{1/2} \log_2 x \in R$

d)  $f : X \rightarrow f(x) = \log_2(x+2) \in R$

e)  $f : X \rightarrow f(x) = 2^{x^2-1} - 3 \in R$

f)  $f : X \rightarrow f(x) = \log_{1/5}(1-2^x) \in R$

g)  $f : X \rightarrow f(x) = \log_2 \frac{x-1}{x+1} \in R$

h)  $f : X \rightarrow f(x) = \log \arccos \log_{1/4}(2^x - 1) \in R$

i)  $f : X \rightarrow f(x) = \operatorname{arctg} \log_{3/2}(3^x - 9) \in R$

j)  $f : X \rightarrow f(x) = \operatorname{arcsen}(2x-1) \in R$

k)  $f : X \rightarrow f(x) = \operatorname{arcsen}(2^x - 1) \in R$

l)  $f : X \rightarrow f(x) = \arccos(2 - \log_{1/2}(2x+1)) \in R$

m)  $f : X \rightarrow f(x) = \sqrt{\frac{x^4-16}{3+2x-x^2}} \in R$

n)  $f : X \rightarrow f(x) = \log_{1/2}(2\operatorname{sen}x - 1) \in R$

**o)**  $f : X \rightarrow f(x) = \frac{x \cdot |x|}{1+x} \in \mathbf{R}$

**p)**  $f : X \rightarrow f(x) = \sqrt{x^2 + x + 1} + x \in \mathbf{R}$