

Studiare le seguenti funzioni:

$$1) f(x) = \sqrt{2x^2 - 4x}$$

$$2) f(x) = \frac{x^2 - 4x + 3}{x^2 - 6x + 8}$$

$$3) f(x) = \sqrt{|2x^2 - 4x|}$$

$$4) f(x) = x - \sqrt{(x-2)(x+3)}$$

$$5) f(x) = \sqrt{4x^2 - 6x} - 2x$$

$$6) f(x) = e^{-x} \sqrt{e^x - 1}$$

$$7) f(x) = \frac{x}{\log(x)}$$

$$8) f(x) = \log \frac{x^2}{|x-2|}$$

$$9) f(x) = x \log(x)$$

$$10) f(x) = xe^x$$

$$11) f(x) = \frac{x^2+1}{x+1}$$

$$12) f(x) = |x^2 - x - 2|$$