

Studiare le seguenti funzioni

1. $f(x) = \sqrt{x^2 - 9}$

2. $f(x) = \frac{x^3 - x^2}{x^2 - 5x + 5}$

3. $f(x) = \frac{x^3 + x^2}{x^2 + 6x + 3}$

4. $f(x) = \frac{\sin x + 2x}{x}$

5. $f(x) = \frac{1}{\sqrt{x^2 - 3} - \sqrt{x^2 - 2}}$

6. $f(x) = \sqrt{x^3 - x^2 + x} - \sqrt{2x^2 - 7x + 6}$

7. $f(x) = \frac{x^3 - 27}{x^3 - 3x^2 + x^2 - 9}$

8. $f(x) = \frac{x^2 - 16}{x^2 - 3x - 16}$

9. $f(x) = \frac{2x \ln x + 3x}{4x}$

10. $f(x) = \frac{x \ln x + x}{2x}$

11. $f(x) = e^{2x - x^2 + 2}$

12. $f(x) = e^{\frac{3x}{2x+6}}$