



DOMANDA 2

$$f(z) - (z + \frac{1}{3}) (3z^3 - 9z^2 + 9z - 3) = 3(z + \frac{1}{3}) (z - 1)^3$$

3 (z + \frac{1}{3}) (z - 1)^3

1) Si dics quarte solution: real has l'equation

$$f(z) = 0.$$
3 (z + \frac{1}{3}) (z - 1)^3

7 = -\frac{3}{3}, 2z - 1

that we solvation real

2) Si dica quale conditions represents l'invience più

ampio di convergenta (z m. 1 \frac{1}{2}.)

$$f(z) = 3z^4 - 9z^3 + 9z^4 - 3z + z^2 - 3z^2 + z - 1 = 3z^4 - 8z^3 - 6z^2 - 2z - 4$$

$$f(z) = 12z^3 - 24z^2 + 12z - 2 = 2(6z^3 - 12z^2 + 6z - 1)$$

$$f''(z) = 36z^2 - 48z + 12 = 12(3z^2 - 4z + 1)$$

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