

VERSIONE 1

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EX1

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c)

$$N = 125$$

$$x_3^N = 6.605163$$

$$\text{Res\_rel}^N = 9.988756e-04$$

$$x_3^1 = 11.30012$$

$$x_3^2 = 11.31652$$

d)

$$\text{err}^k \leq 4.618333e-06$$

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EX2

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e)

$$U(r, \theta) = 75 / 2 - r^2 / 2 * \cos( 2 * \theta )$$

$$u(x, y) = 75 / 2 + ( y^2 - x^2 ) / 2$$

g)

$$U_h = 3.730326$$