## Cálculo Numérico: Gabarito de Método de Newton

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- 1. (a)  $\bar{x} = 2.00455764, x_1 = 2.9, x_2 = 2.13965517, x_3 = 2.00455764, x_4 =, \varepsilon = 0.13509752$ 
  - (b)  $\bar{x} = -0.59259259, x_1 = -2, x_2 = -1.33333333, x_3 = -0.88888888, x_4 = -0.59259259, \varepsilon = 0.44444444$
  - (c)  $\bar{x}=1.51677444, x_1=4.05633802, x_2=2.78897669, x_3=1.98704642, x_4=1.51677444, \varepsilon=0.47027$
  - (d)  $\bar{x}=0.00129550, x_1=0.57619047, x_2=0.21063156, x_3=0.03604670, x_4=0.00129550, \varepsilon=0.03535119$
  - (e)  $\bar{x} = 2.92 \times 10^{-13}, x_1 = -0.55740772, x_2 = 0.06593645, x_3 = -0.00009752, x_4 = 2.92 \times 10^{-13}, \varepsilon =$
- $2. \quad (a)$ 
  - (b)
  - (c)
  - (d)
  - (e)
- 3. (a)
  - (b)
  - (c)
  - (d)
  - (e)
  - (f)
  - (g)

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- 4. (a)
  - (b)
  - (c)
  - (d)
- 5.  $\bar{x} = 3.14149311, x_1 = 3.14079632, x_2 = 3.14119449, x_3 = 3.14139367, x_4 = 3.14149311, \varepsilon = |x_4 x_3| = 0.00009954$
- 6.