- Apply two steps of the Method of False Position with initial brocket [1,2] to the equations of exercise #1.
  - Recall: If a and b are the initial guesses of the function f, such that frast(b) 40, the False Position Method to find the further approximation is given by: (= bf(a) - af(b)
    f(a) - f(b)

$$f_{1}(1) = (1)^{3} - 7(1) - 1$$

$$= -3$$

$$-3 + 0$$

$$f_{1}(2) = (2)^{3} - 2(2) - 2$$

$$= 8 - 4 - 2$$

$$= 2$$

$$3 > 0$$

$$\frac{(1 = bf(a) - af(b))}{f(a) - f(b)} = \frac{2f_1(1) - 1f_1(2)}{f_1(1) - f_1(2)} = \frac{(2)(-3) - (1)(2)}{(-3) - (2)} = \frac{-6 - 2}{-5} = \frac{8}{5}$$

Thun 
$$f_1(t) = \left(\frac{8}{5}\right)^3 - 2\left(\frac{8}{5}\right) - 2$$

$$= -1.164$$

$$-1.104 < 0$$

· The new interval becomes [8/5, 2]

$$\frac{(z = 25, (3/5) - (3/5) + 1/2)}{f_1(3/5) - f_1(2)} = \frac{(2)(-1.104) - (3/5)(2)}{-1.104 - 2}$$

$$f(1) = e^{1} + 1 - 7$$

$$= e^{2} + 2 - 7$$

$$= e^{2} - 5$$

$$= -3.28$$

$$= 3.28$$

$$= 3.28 - 3.28$$

$$= 3.28 + 2.39$$

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$$f(z) = e^{2} + 2 - 7 \qquad c_{1} = 2(-3.28) - 1(2.39) \qquad f(c_{1}) = e^{1.578} + 1.578 - 7$$

$$= e^{2} - 5 \qquad -3.28 - 2.39 \qquad = -0.573$$

$$= 2.39 \qquad c_{1} = 1.578 \qquad -0.573 + 0, \quad 1405 + 66$$

$$= 2.39 - 0.573 + 0, \quad 1405 + 66$$

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$$c_2 = 2(-0.573) - (1.578)(2.39)$$

$$(-0.573) - 2.39$$

$$f(1) = e^{1} + \sin(1) - 4 \qquad f(2) = e^{2} + \sin(2) - 4 \qquad (1 = 2(-0.44) - 1(4.24)) \qquad f(1.04) = e^{1.04} + \sin(1.04) - 4$$

$$= -0.124 \qquad (-0.44) - (4.24) \qquad = -0.124 \qquad -0.124 \qquad$$