## Wordton estam at Numerical Cabulus

$$f(0) = 2.0^{2} - 10.0 + 8 = 8 > 0$$
  
 $f(3) = 2.3^{2} - 10.3 + 8 = -40$  = there  $3 \times 0 \in (0, 3)$  D.t.  $f(x_{0}) = 0$   
Respectively

## Fort Grater

$$a_0 = 0$$
,  $b_0 = 3$ ,  $c_0 = \frac{a_0 \cdot l(b_0) - b_0 \cdot l(a_0)}{l(b_0) - l(a_0)} = \frac{-3 \cdot 8}{-4 - 8} = \frac{-24}{-12} = 2$ 

Second Floration

$$A_1 = 0$$
,  $b_1 = 2$ ,  $c_1 = \frac{a_1 \cdot l(b_1) - b_1 \cdot l(a_1)}{l(b_1) - l(a_1)} = \frac{-2 \cdot 8}{-4 - 8} = \frac{16}{12} = \frac{4}{3}$ 

$$f(e_1) = f(\frac{1}{3}) = 2 \cdot (\frac{1}{3})^2 - 10 \cdot \frac{1}{3} + 8 = 2 \cdot \frac{16}{3} - \frac{3}{3} + 8 = \frac{32 - 140 + 72}{9} = -\frac{16}{9}$$

$$f(e_1) \cdot f(e_1) < 0 = 0$$

$$a_2 = a_1, \ f_2 = c_1$$

b) We need to land the but last for the lune Black y= ax+b, reduce to =0, x1=1, x2=3, 2(x0)=2, 2(x1)=-1, 2(x2)=11 and m=2.

The formulas for a and be are:

$$\Omega = \frac{(m+1) \frac{m}{2} + i \cdot l(\pi i) - \frac{m}{2} + i \cdot \frac{m}{2} + i \cdot l(\pi i) - \frac{m}{2} + i \cdot \frac{m}{2} + i$$

$$=\frac{3\cdot \left(0.2+1\cdot (-1)+3.11\right)-\left(0+1+3\right)\cdot \left(2+(-1)+11\right)}{3\cdot \left(0^2+1^2+3^2\right)-\left(0+1+3\right)^2}=\frac{3\cdot 32-4\cdot 42}{3\cdot 10-4^2}=\frac{48}{14}=\frac{24}{7}$$

$$b = \frac{\sum_{i=0}^{m} x_{i}^{2} \sum_{i=0}^{m} f(x_{i}) - \sum_{i=0}^{m} x_{i} \cdot f(x_{i}) \sum_{i=0}^{m} x_{i}}{\sum_{i=0}^{m} x_{i}^{2} - \left(\sum_{i=0}^{m} x_{i}\right)^{2}} = \frac{\sum_{i=0}^{2} x_{i}^{2} \sum_{i=0}^{2} f(x_{i}) - \sum_{i=0}^{2} x_{i} \cdot f(x_{i})}{\sum_{i=0}^{2} x_{i}^{2} - \left(\sum_{i=0}^{m} x_{i}\right)^{2}} = \frac{\sum_{i=0}^{2} x_{i}^{2} - \left(\sum_{i=0}^{m} x_{i}\right)^{2}}{3 \cdot \sum_{i=0}^{2} x_{i}^{2} - \left(\sum_{i=0}^{m} x_{i}\right)^{2}}$$

$$=\frac{\left(0^{2}+1^{2}+3^{2}\right)\cdot\left(2+\left(-1\right)+11\right)-\left(0\cdot2+1\cdot\left(-1\right)+3\cdot11\right)\left(0+11+3\right)}{3\cdot\left(0^{2}+1^{2}+3^{2}\right)-\left(0+11+3\right)^{2}}=\frac{10\cdot12-32\cdot4}{3\cdot10-16}=\frac{-8}{14}=\frac{4}{7}$$

So, the line that but lits our rooms is  $y = \frac{94}{7}, x - \frac{4}{7}$