78. 
$$y = \frac{1}{\sqrt{2x^{2}+x+1}}, x=1,016$$

$$f(x_{0}+4x) \approx f(x_{0}) + f'(x_{0}) \Delta x$$

$$x_{0} = 1; \Delta x = 0,016; y' = -\frac{1}{2} \cdot (2x^{2}+x+1)^{-\frac{3}{2}} \cdot (4x+1); y'(x_{0}) = -\frac{5}{16}$$

$$f(1,016) \approx \frac{1}{2} + (-\frac{5}{16}) \cdot 0,016 =$$

$$= \frac{1}{2} - \frac{8}{16} \cdot \frac{16}{1000_{200}} = \frac{1}{2} - \frac{1}{200} = 0,495$$
Orbes: 0,495.