

**NO234 Passoires...**

a)  $f_1 = 1$                        $f_2 = \frac{3}{4}$                        $f_3 = \frac{9}{16}$                        $f_4 = \frac{27}{64}$                        $f_5 = \frac{81}{256}$

b)  $f_{15} = \frac{4\,782\,969}{268\,435\,456} \cong 0,0178\dots$                        $f_n = \frac{3^{(n-1)}}{4^{(n-1)}}$

c)  $f_1 = 1$                        $f_2 = \frac{8}{9}$                        $f_3 = \frac{64}{81}$                        $f_4 = \frac{512}{729}$                        $f_5 = \frac{4096}{6561}$

$f_{15} = \frac{4,398 \cdot 10^{12}}{2,287 \cdot 10^{13}} \cong 0,192\dots$                        $f_n = \frac{8^{(n-1)}}{9^{(n-1)}}$