

<p>Premier n tel que <math>U_n \geq A</math>  <math>U_n = 1 + (1/2) + \dots + (1/n)</math>  <math>A = 10;</math>  <math>n = 1;</math>  <math>U = 1;</math>  While <math>U &lt; A</math> :  <math>n = n + 1;</math>  <math>U = U + (1/n);</math>  Print(n)</p> <p>Réponse 12367</p>	<p>Premier n tel que <math>U_n &lt; e</math> :  <math>e = 0.001;</math>  <math>U_{n+1} = \frac{U_n}{1+U_n} \quad U_0 = 1</math>  <math>U = 1; n = 0;</math>  While <math>U \geq e</math> :  <math>n = n + 1;</math>  <math>U = U / (1+U)</math>  Print(n)</p> <p>Reponse 999  (1/<math>u_n</math> est arithmétique, <math>U_n = 1/n</math>)</p>	<p>Suite de Fibonacci  <math>a = 0; b = 1</math>  <math>n = \text{int}(\text{input}('n'));</math>  for l in range(2,n+1):  <math>c = a + b;</math>  <math>a = b;</math>  <math>b = c;</math>  print(c)  pour n=10 on a 55</p>
<p>Suite double  <math>a_{n+1} = (a_n + 2b_n)/4</math>  <math>b_{n+1} = (2a_n + b_n)/4</math>  <math>a_1 = 0.5 \quad b_1 = 0.25</math></p> <p><math>n = \text{int}(\text{input}('n'));</math>  <math>a = 0.5; b = 0.25;</math>  for l in range(2,n+1):  <math>c = (a + 2*b)/4;</math>  <math>b = (2*a + b)/4;</math>  <math>a = c;</math>  print(a); print(b)</p>	<p><math>\pi</math> par Viete(1540-1603)  <math>x_{n+1} = \sqrt{2 + x_n} \quad x_0 = \sqrt{2}</math>  <math>y_{n+1} = \frac{2y_n}{x_n} \quad y_0 = 2</math>  <math>y_n</math> tend vers <math>\pi</math></p> <p>from math import sqrt  <math>x = \text{sqrt}(2); y = 2; n = \text{int}(\text{input}('n'));</math>  for i in range(1,n+1):  <math>y = 2*y/x;</math>  <math>x = \text{sqrt}(2+x);</math>  print(y)</p>	<p><math>\pi</math> par Nicolas Cues(1401-1464)  <math>x_1 = 0 \quad y_1 = 1/4</math>  <math>x_{n+1} = \frac{x_n + y_n}{2} \quad y_{n+1} = \sqrt{x_{n+1} y_n}</math>  <math>1/(2x_n)</math> tend vers <math>\pi</math></p> <p>from math import sqrt  <math>x = 0; y = 1/4;</math>  <math>n = \text{int}(\text{input}('n'));</math>  for l in range(2,n+1):  <math>x = (x + y)/2; y = \text{sqrt}(x*y)</math></p> <p>avec n=10 on a 3.1416</p> <p>voir univers de pi : <a href="http://pi314.net/">pi314.net/</a></p>