```
Kp016 2-16
                         8-10
 1) 552 = 4.21
       \frac{17}{19} = 0.895
  X, = 552 × 1.2111
  X = 17 5 0.8947
 \Delta x_1 = |1.21 - 1.211| = 0.0011 \leq 0.0012 = \Delta x_1

\Delta x_2 = |0.895 - 0.8947| = 0.0003 \leq 0.0004 = \Delta x_2
  8_{x_1} = \frac{0.0012}{1.2111} \approx 0.00017
  8_{x_2} = \frac{0.0004}{0.835} \approx 0.00045
  Sx, < Sx2 => X, Sinbur TOTHE
2)
   a) x = 13.537
         Ax = 0,0041
    13.537= 1.10'+3.10°+5.10"+3.10-2+7.10-3
          0.0041 6 0.5 - 10
    2 0.0041 6 0.5 - 10 1 - 2 +1
         0.0041 £ 0.5 · 10 1-3+1
                                         B-g6: n=5
    4 0.0041 £ 0.5.10 1-4+1
     3
    5 0.0041 \ 0.5.101-5+1
```

$$\delta 1 \quad x = 4.521$$

$$\delta_{x} = 0.127.$$

$$AX = 4.521 \cdot 0.0012 = 0.0030252$$

$$0.0030252 \leq 1.10^{0-1+1}$$

$$2 \quad 0.0030252 \leq 1.10^{0-2+1}$$

$$3 \quad 0.0030252 \leq 1.10^{0-3+1}$$

$$4 \quad 0.0030252 \neq 1.10^{0-9+1}$$

1 - go: 1 = 4

a)
$$5.634$$

$$\Delta x = 0.005$$

$$\delta_{\chi} = \frac{0.005}{5.634} \approx 0.000887$$

$$\delta) 0.0148$$

$$\delta x = 0.0001$$

$$\delta = \frac{0.0001}{0.0148} \approx 0.00133$$

```
import math
x1 = math.sqrt(52)
x2 = 17/19
x1a = 7.21
x2a = 0.895
dx1 = math.fabs(x1a - x1)
dx2 = math.fabs(x2a - x2)
gx1 = dx1/x1a
gx2 = dx2/x2a
if gx1 < gx2:</pre>
   print("X1 точніше")
elif gx1 > gx2:
   print("X1 точніше")
else:
   print("Обидва однаково точні")
Х1 точніше
```