

## Exercice 2

Données partielles :

$$a - 2002$$

$$b - 09$$

$$c - 20$$

3 étapes

$$1) \frac{2002}{9 \cdot 20} = \frac{2002}{180} = 11 + \frac{22}{180} =$$

$$= 11 + \frac{\frac{1}{180}}{\frac{22}{22}} = 11 + \frac{1}{8 + \frac{4}{22}} =$$

$$= 11 + \frac{1}{8 + \frac{1}{\frac{22}{4}}} = 11 + \frac{1}{8 + \frac{1}{5 + \frac{2}{11}}} =$$

$$= 11 + \frac{1}{8 + \frac{1}{2 + \frac{1}{1 + \frac{1}{3}}}} = 11 + \frac{1}{8 + \frac{1}{2 + \frac{1}{1 + \frac{1}{3}}}} =$$

$$\frac{2002}{180} = [11; 8, 5, 2]$$



$$2) \quad 2002 = (11) \cdot 180 + 22$$

$$180 = (8) \cdot 22 + 4$$

$$22 = (5) \cdot 4 + 2$$

$$4 = 2 \cdot 2$$

$$[11; 8, 5, 2]$$



Задача 2

$$\sqrt{180} = 13 + (\sqrt{180} - 13) =$$

$$= 13 + \frac{1}{\frac{1}{\sqrt{180} - 13}} = 13 + \frac{1}{\frac{\sqrt{180} + 13}{11}} =$$

$$= 13 + \frac{1}{2 + \frac{\sqrt{180} - 9}{11}} = 13 + \frac{1}{2 + \frac{1}{\frac{11}{\sqrt{180} - 9}}} =$$

$$= 13 + \frac{1}{2 + \frac{1}{\frac{11(\sqrt{180} + 9)}{99}}} =$$

$$= 13 + \frac{1}{2 + \frac{1}{2 + \frac{\sqrt{180} - 9}{9}}} =$$

$$= 13 + \frac{1}{2 + \frac{1}{2 + \frac{1}{\frac{9}{\sqrt{180} - 9}}}} =$$

$$= 13 + \frac{1}{2 + \frac{1}{2 + \frac{1}{\frac{9(\sqrt{180} + 9)}{99}}}} =$$



$$= 13 + \frac{1}{2 + \frac{1}{2 + \frac{1}{\sqrt{180} + 9}}}$$

$$= 13 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2 + \frac{1}{\sqrt{180} - 13}}}} =$$

$$= 13 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2 + \frac{1}{\sqrt{180} - 13}}}} =$$

$$= 13 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2 + \frac{1}{11(\sqrt{180} + 13)}}}} =$$

$$= 13 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2 + \frac{1}{26 + \sqrt{180} - 13}}}} =$$

$$\sqrt{180} = \left[ 13; \overline{2, 2, 2, 26} \right]$$