

# Calculs numériques II

1<sup>re</sup> série

- (1)  $\frac{4}{5} + \frac{3}{2} - \frac{7}{3} \dots\dots\dots = -\frac{1}{30}$
- (2)  $-\frac{5}{12} + \frac{7}{4} - 3 + \frac{11}{6} \dots\dots\dots = \frac{1}{6}$
- (3)  $\frac{3}{18} - \frac{27}{81} + \frac{144}{24} - \left(-\frac{5}{2}\right) \dots\dots\dots = \frac{25}{3}$
- (4)  $\frac{3}{13} - \frac{14}{5} + \frac{8}{12} - \frac{128}{65} \dots\dots\dots = -\frac{151}{39}$
- (5)  $\frac{-1}{-3} + \left(-\frac{2}{5}\right) \cdot (-7) \dots\dots\dots = \frac{47}{15}$
- (6)  $1 - \frac{5}{6} \cdot \frac{3}{5} + \left(\frac{3}{-8}\right) \dots\dots\dots = \frac{1}{8}$
- (7)  $\frac{7}{5} \cdot 4 - \frac{19}{3} + \frac{11}{15} \dots\dots\dots = 0$
- (8)  $8 \cdot \left(-\frac{1}{7}\right) + \frac{3}{4} \cdot \left(-\frac{1}{2}\right) \dots\dots\dots = -\frac{85}{56}$
- (9)  $\left(\frac{4}{-5}\right) \cdot \left(\frac{-3}{2}\right) \cdot \frac{7}{3} \dots\dots\dots = \frac{14}{5}$
- (10)  $-\frac{18}{14} \cdot \left(-\frac{7}{27}\right) \cdot \frac{8}{4} \dots\dots\dots = \frac{2}{3}$
- (11)  $\frac{1}{2} \cdot \left(\frac{-9}{15}\right) \cdot \left(\frac{25}{-32}\right) \cdot \left(\frac{-8}{3}\right) \dots\dots\dots = -\frac{5}{8}$
- (12)  $-\frac{42}{13} : \frac{14}{26} \dots\dots\dots = -6$
- (13)  $-\frac{1}{3} : (-4) \dots\dots\dots = \frac{1}{12}$
- (14)  $-9 : \frac{12}{-20} \dots\dots\dots = 15$
- (15)  $\frac{5}{-6} : \left(\frac{-8}{9}\right) \dots\dots\dots = \frac{15}{16}$
- (16)  $\left(\frac{51}{-22} : \frac{-17}{55}\right) \cdot \frac{1}{21} \dots\dots\dots = \frac{5}{14}$
- (17)  $(-5) \cdot \left(\frac{3}{-7}\right) \cdot \frac{168}{12} : (-8) \dots\dots\dots = -\frac{15}{4}$
- (18)  $\frac{1}{4} - \left(-\frac{1}{28}\right) - \frac{2}{7} \cdot \frac{3}{9} + \left(\frac{-4}{20}\right) : \left(\frac{6}{-5}\right) \dots\dots\dots = \frac{5}{14}$

## 2<sup>me</sup> série

- (1)  $\frac{3 \cdot \frac{1}{4} - \frac{-5}{26} \cdot \left(-\frac{14}{5}\right)}{2 - \frac{3}{8}} \dots\dots\dots = -\frac{1}{13}$
- (2)  $\frac{\frac{1}{7} - \frac{1}{3} - \frac{-7}{-5}}{\frac{-2}{3} - \frac{3}{5} - 1} \dots\dots\dots = -\frac{67}{58}$
- (3)  $-\frac{35}{48} \cdot \frac{7}{-5} \cdot \frac{7}{-13} \dots\dots\dots = \frac{24}{7}$
- (4)  $\frac{\frac{3}{-4} - \frac{2}{3} + \frac{-7}{20} - \frac{-19}{38}}{\frac{12}{5}} \dots\dots\dots = -\frac{7}{2}$
- (5)  $\frac{1 + \frac{1}{3} \cdot \frac{5}{-7} - \frac{-4}{5} \cdot 8 - \frac{3}{10}}{\frac{4}{3} \cdot \frac{(-2)^2}{-14}} \dots\dots\dots = -\frac{53}{60}$

## 3<sup>me</sup> série

Calculer les expressions suivantes, lorsque  $a = -\frac{2}{5}$ ,  $b = -3$ ,  $c = \frac{1}{4}$  et  $d = \frac{3}{10}$ .

- (1)  $\frac{1}{a} - \frac{b}{c} + d \dots\dots\dots = \frac{49}{5}$
- (2)  $-a(-b) + \frac{c}{-d} \dots\dots\dots = \frac{11}{30}$
- (3)  $abc + bcd - cda \dots\dots\dots = \frac{21}{200}$
- (4)  $\frac{a}{b \cdot d} - \frac{c}{a^2} \dots\dots\dots = -\frac{161}{144}$
- (5)  $\frac{a}{c^2} : \frac{-b}{d} \dots\dots\dots = -\frac{16}{25}$
- (6)  $2 \cdot a \cdot \frac{1}{b} + \frac{3}{c-d} + \frac{a-b}{b-c} \dots\dots\dots = -\frac{908}{15}$
- (7)  $1 + \frac{1}{ab} - \frac{1}{bc} - \frac{1}{cd} \dots\dots\dots = -\frac{61}{6}$
- (8)  $\frac{a-b+c}{b-d+a} - \frac{a+b+c+3}{a+c} \dots\dots\dots = -\frac{131}{74}$