Entraînement 4C23

EX 1

Calculer sous la forme d'un nombre rationnel relatif irréductible

4C23-1

1. A $= \dfrac{2}{-7} \times \dfrac{-1}{-3} - \dfrac{3}{7}$

2. B $= \dfrac{-3}{-7} + \dfrac{-5}{-7} \times \dfrac{4}{5}$

3. C $= \dfrac{1}{-2} \div \dfrac{-1}{5} - \dfrac{1}{-2}$

4. D $= \dfrac{3}{5} - \dfrac{-2}{-7} \times \dfrac{-3}{-7}$

5. E $= \dfrac{-1}{-5} - \dfrac{2}{-5} \times \dfrac{2}{-3}$

6. F $= \dfrac{2}{-3} \div \dfrac{-1}{2} - \dfrac{3}{7}$

7. G $= \dfrac{2}{3} - \dfrac{2}{-7} \div \dfrac{-2}{3}$

8. H $= \dfrac{4}{-7} \times \dfrac{1}{-7} + \dfrac{1}{7}$

9. I $= \dfrac{1}{5} - \dfrac{-2}{7} \times \dfrac{-2}{-3}$

10. J $= \dfrac{-4}{-7} \times \dfrac{-1}{-3} - \dfrac{-4}{-7}$

11. K $= \dfrac{-1}{-3} \times \dfrac{1}{-3} - \dfrac{2}{7}$

12. L $= \dfrac{4}{-7} + \dfrac{2}{7} \times \dfrac{5}{7}$

EX 1

1. $A = \frac{2}{-7} \times \frac{-1}{-3} - \frac{3}{7}$

$A = \frac{2}{-7} \times \frac{-1}{-3} - \frac{3}{7}$

$A = \frac{2 \times -1}{-7 \times -3} - \frac{3}{7}$

$A = \frac{-2}{21} - \frac{3}{7}$

$A = \frac{-2}{21} - \frac{3\times3}{7\times3}$

$A = \frac{-2}{21} - \frac{9}{21}$

$A = \frac{-11}{21}$

$A = -\frac{11}{21}$

2. $B = \frac{-3}{-7} + \frac{-5}{-7} \times \frac{4}{5}$

$B = \frac{-3}{-7} + \frac{-5 \times 4}{-7 \times 5}$

$B = \frac{-3}{-7} + \frac{-20}{-35}$

$B = \frac{-3}{-7} + \frac{-4 \times \cancel{5}}{-7 \times \cancel{5}}$

$B = \frac{-3}{-7} + \frac{-4}{-7}$

$B = \frac{-7}{-7}$

$B = 1$

3. $C = \frac{1}{-2} \div \frac{-1}{5} - \frac{1}{-2}$

$C = \frac{1}{-2} \times \frac{5}{-1} - \frac{1}{-2}$

$C = \frac{1}{-2} \times \frac{5}{-1} - \frac{1}{-2}$

$C = \frac{1 \times 5}{-2 \times -1} - \frac{1}{-2}$

7. $G = \frac{2}{3} - \frac{2}{-7} \div \frac{-2}{3}$

$G = \frac{2}{3} - \frac{2}{-7} \times \frac{3}{-2}$

$G = \frac{2}{3} - \frac{2 \times 3}{-7 \times -2}$

$G = \frac{2}{3} - \frac{6}{14}$

$G = \frac{2}{3} - \frac{3 \times \cancel{2}}{7 \times \cancel{2}}$

$G = \frac{2\times7}{3\times7} - \frac{3\times3}{7\times3}$

$G = \frac{14}{21} - \frac{9}{21}$

$G = \frac{5}{21}$

8. $H = \frac{4}{-7} \times \frac{1}{-7} + \frac{1}{7}$

$H = \frac{4}{-7} \times \frac{1}{-7} + \frac{1}{7}$

$H = \frac{4 \times 1}{-7 \times -7} + \frac{1}{7}$

$H = \frac{4}{49} + \frac{1}{7}$

$H = \frac{4}{49} + \frac{1\times7}{7\times7}$

$H = \frac{4}{49} + \frac{7}{49}$

$H = \frac{11}{49}$

9. $I = \frac{1}{5} - \frac{-2}{7} \times \frac{-2}{-3}$

$I = \frac{1}{5} - \frac{-2 \times -2}{7 \times -3}$

$I = \frac{1}{5} - \frac{4}{-21}$

$I = \frac{1\times-21}{5\times-21} - \frac{4\times5}{-21\times5}$