b) $\dfrac{-1}{\dfrac{1\times5}{4\times5}-\dfrac{3}{20}} - 1^{252}$

$= \dfrac{-1}{\dfrac{2}{20}} - 1$

$= -\dfrac{20}{2} - 1$

$= -10 - 1$

$= -11$

a) $\dfrac{3^{-5}}{3^{-6}} = 3^{-5} \times 3^6 = 3^{-5+6} = 3^1 = 3$

b) $\dfrac{1^{-1}}{81^{-1}} = 1^{-1} \times 81^1$

$= \dfrac{1}{1^1} \times 81^1 = \boxed{81}$

A	B		$A \cup B$	$A \cap B$
$]-\infty;4[$	$[4;10]$		$]-\infty;10]$	$\emptyset$
$[\frac{2}{3};\frac{4}{5}[$	$]\frac{5}{7};\frac{3}{4}]$		$[\frac{2}{3};\frac{4}{5}[$	$]\frac{5}{7};\frac{3}{4}[$
$[-10;2]$	$[-3;7]$		$[-\infty;7]$	$[-3;2]$
$]-\infty;3]$	$[-6;+\infty[$		$\mathbb{R}=]-\infty;+\infty[$	$[-6;3]$
$[7;+\infty[$	$[-5;+\infty[$		$[-5;+\infty[$	$[7;+\infty[$
$]3;18]$	$]17;20]$		$]3;20]$	$]17;18]$
$]2,4;3[$	$[2;2,9]$		$[2;3[$	$]2,4;2,9]$
$[-3,0]$	$[-1;+\infty[$		$[-3;+\infty[$	$(-1;0]$
$]-4;+\infty[$	$[10;+\infty[$		$]-4;+\infty[$	$[-\infty;+\infty[$
$[-3,7]$	$[8;+\infty[$		$[-3;7]\cup[8;+\infty[$	$\emptyset$
$[-2,0[$	$[0;+\infty[$		$[-2;+\infty[$	$\emptyset$
$[-3;+\infty[$	$[-5;+\infty[$		$[-5;+\infty[$	$[-3;+\infty[$
$]7;18[$	$[10;+\infty[$		$]7;+\infty[$	$[10;18[$

$x \in A \cup B \iff x \in A$ ou $x \in B$

$x \in A \cap B \iff x \in A$ et $x \in B$
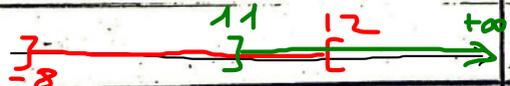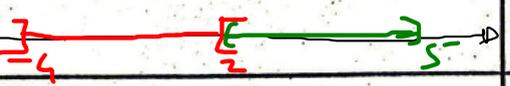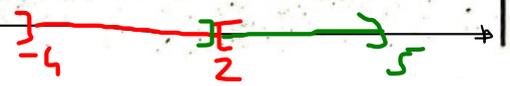
$]-8;12]$	$]11; +\infty[$		$]-8; +\infty[$	$]11;12[$
$]-4;2[$	$[2;5]$		$]-4;5]$	$\emptyset$
$]-4;2[$	$]2;5]$		$]-4;2[\cup]2;5[$	$\emptyset$

$$\mathbb{R} \setminus \{2\} =]-\infty;2[\cup]2;+\infty[$$

$$A = \left(\frac{1}{4} - \frac{5}{3}\right)\left(\frac{1}{2} - \frac{1}{3}\right)$$

$$B = 2 - \frac{8}{3} \times \frac{1}{-16}$$

$$C = -\frac{7}{12} \times \frac{36}{14} \times \frac{-8}{5}$$

$$D = \frac{5}{3} - \frac{8}{3} \times \frac{-9}{16}$$

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

$$F = \left(\frac{2}{3} - 4\right)\left(\frac{2}{3} + 4\right)$$

$$G = \frac{8}{3} \times (-3) + \frac{4}{9} \times \left(\frac{-4}{-9}\right)$$

$$H = \frac{13}{+8} \times \frac{+1}{+5} \times \frac{-20}{9} = \boxed{\frac{-1}{6}}$$

$$I = \frac{-15}{4} \times \frac{1}{19} = \boxed{\frac{1}{4}}$$

$$I = \left(\frac{1}{4} - 5\right)\left(\frac{-4}{19} \times \frac{-1}{4}\right)$$

$$J = \frac{3 - 7 \times (-3)}{-8} = \frac{3 + 21}{-8} = \frac{24}{-8} = \boxed{-3}$$

$$\bullet\; A = \frac{3 - 20}{12} \times \frac{3 - 2}{6} = -\frac{17}{12} \times \frac{1}{6} = \boxed{-\frac{17}{72}}$$

$$\bullet\; D = \frac{5}{3} + \frac{3}{2} = \boxed{\frac{19}{6}}$$

$$\bullet\; B = 2 - \frac{1}{-6} = 2 + \frac{1}{6} = \boxed{\frac{13}{6}}$$

$$\bullet\; E = 7 - \frac{1}{3} + 1 = 8 - \frac{1}{3} = \boxed{\frac{23}{3}}$$

$$\bullet\; C = -\frac{-12}{5} = \boxed{\frac{12}{5}}$$

$$\bullet\; F = \frac{-10}{3} \times \frac{14}{3} = \boxed{-\frac{140}{9}}$$

$$\bullet\; G = -8 + \frac{16}{81} = \boxed{\frac{-632}{81}}$$