

Intervalles

Série 4

Calcul mental et automatismes – IREM de Clermont-Ferrand

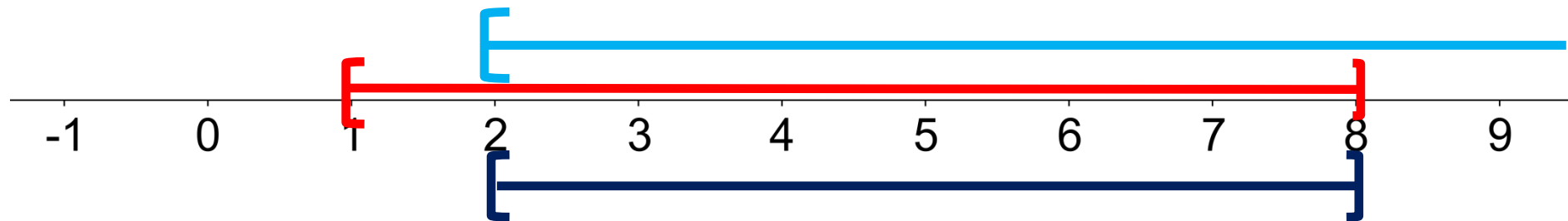
Simplifier les intersections
et réunions d'intervalles
suivantes, lorsque c'est
possible.

N°0

$$[1; 2^3] \cap [2; +\infty[$$

Nº0

$$[1; 2^3] \cap [2; +\infty[$$



$[2; 8]$

N°1

$$]-\infty; 1/3] \cap]0,33; +\infty[$$

N°2

$$]-\infty; 1/3] \cup]0,33; +\infty[$$

N°3

$$[0; 5/6] \cap [0; 5/7]$$

N°4

$$[0; 5/6] \cup [0; 5/7]$$

N°5

$$\left]-2; -\frac{3}{4}\right] \cap \left[-\frac{3}{5}; 2\right[$$

N°6

$$\left]-2; -\frac{3}{4}\right] \cup \left[-\frac{3}{5}; 2\right[$$

N°7

$$[-4^2; \sqrt{8}] \cap [2\sqrt{2}; (-4)^2]$$

N°8

$$[-4^2; \sqrt{8}] \cup [2\sqrt{2}; (-4)^2]$$

Nº9

$$]-\infty; 0,3[\cap [0,3^2; 2[$$

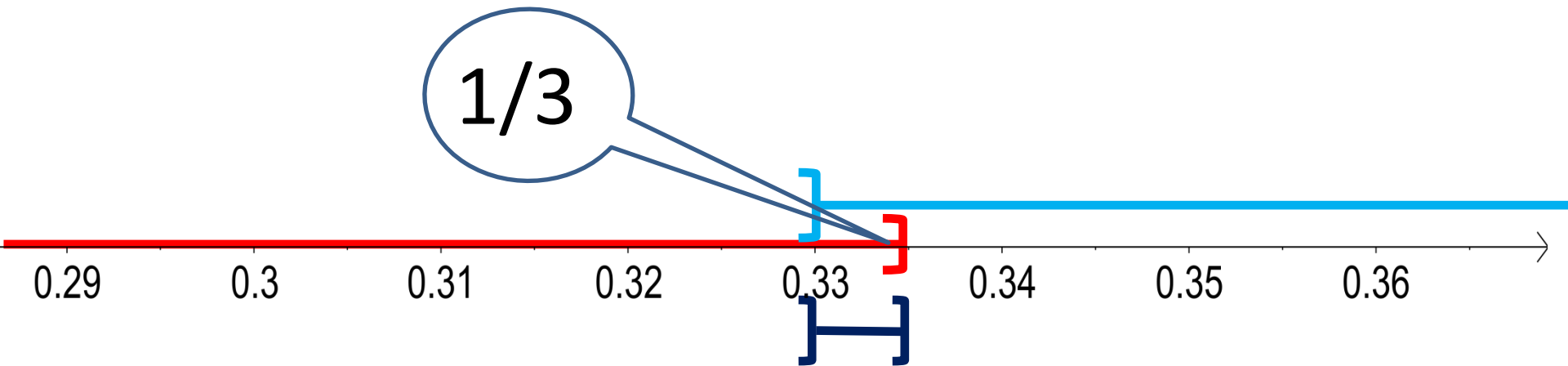
N°10

$$]-\infty; 0,3[\cup [0,3^2; 2[$$

Correction

N°1

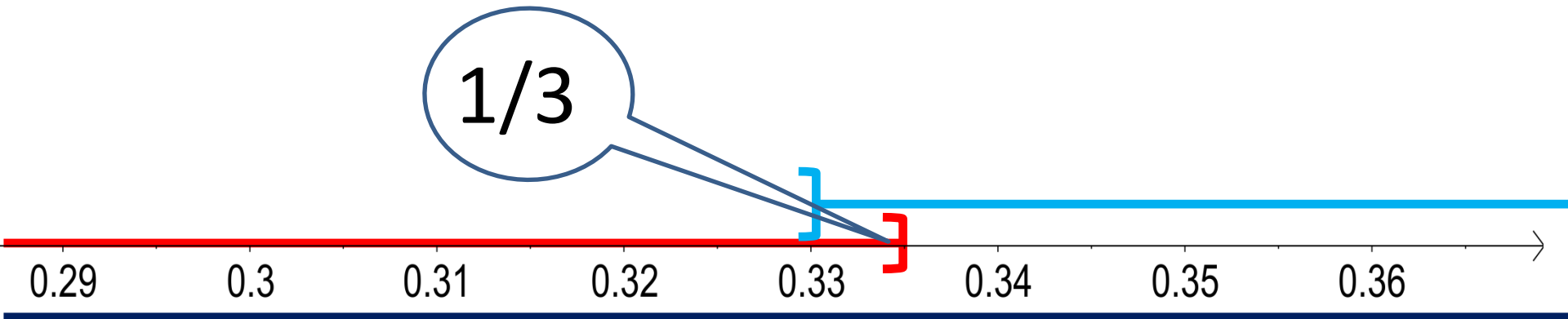
$$]-\infty; 1/3] \cap]0,33; +\infty[$$



$$]0,33; 1/3]$$

N°2

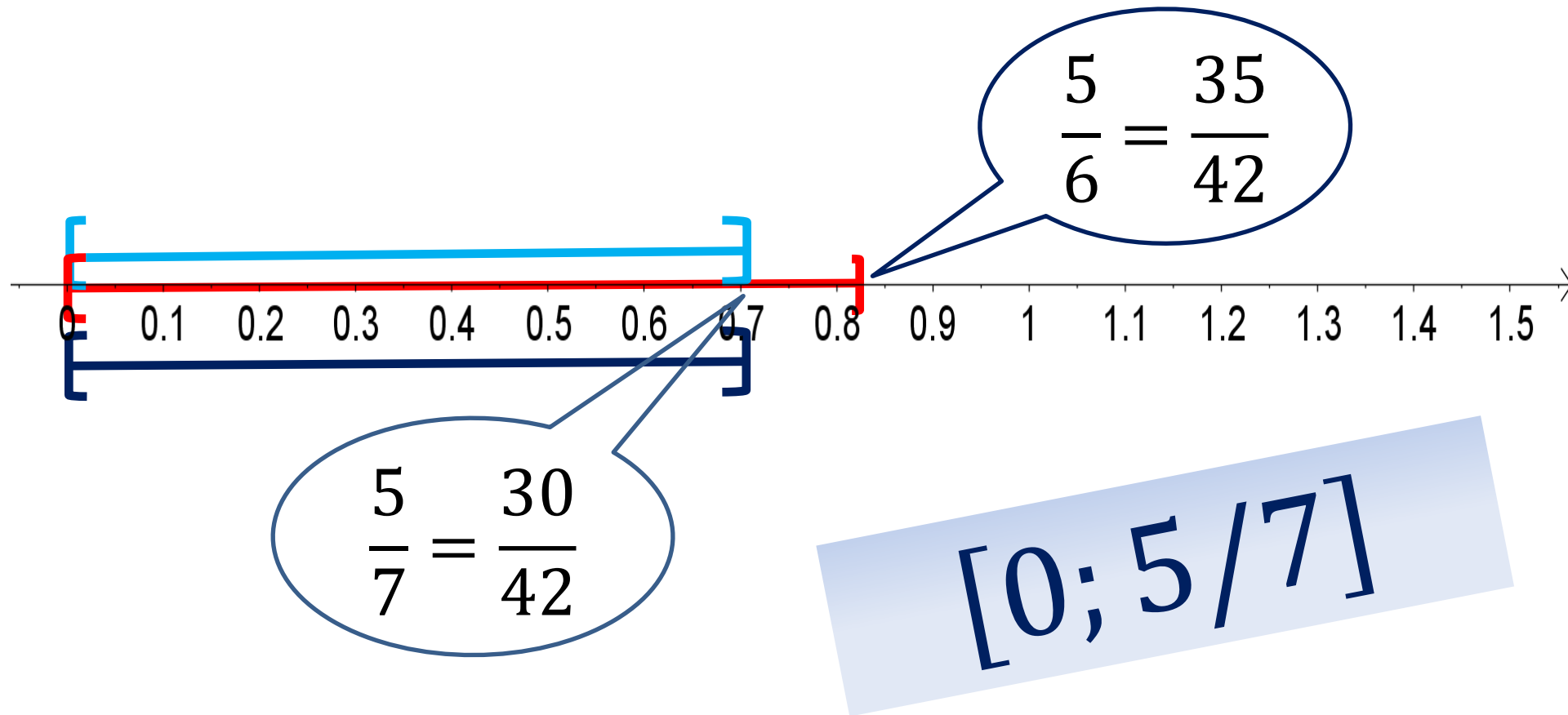
$$]-\infty; 1/3] \cup]0,33; +\infty[$$



$$]-\infty; +\infty[$$

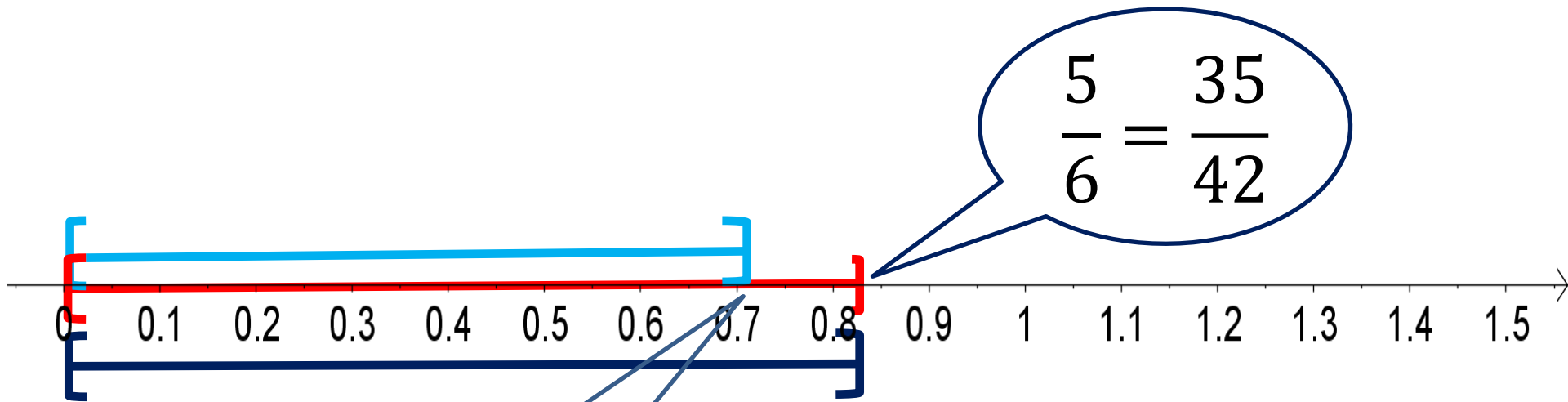
N°3

$$[0; 5/6] \cap [0; 5/7]$$



N°4

$$[0; 5/6] \cup [0; 5/7]$$



$$\frac{5}{6} = \frac{35}{42}$$

$$\frac{5}{7} = \frac{30}{42}$$

$$[0; 5/6]$$

Nº5

$$\left]-2; -\frac{3}{4}\right] \cap \left[-\frac{3}{5}; 2\right[$$

-3 -2.5 -2 -1.5 -1 -0.5 0 0.5 1 1.5 2 2.5 3



$$-\frac{3}{4} = -0,75$$

$$-\frac{3}{5} = -0,6$$

\emptyset

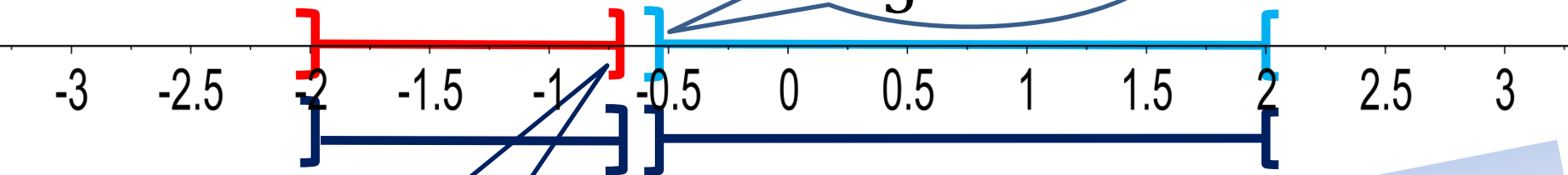
N°6

$$\left]-2; -\frac{3}{4}\right] \cup \left[-\frac{3}{5}; 2\right[$$

$$-\frac{3}{5} = -0,6$$

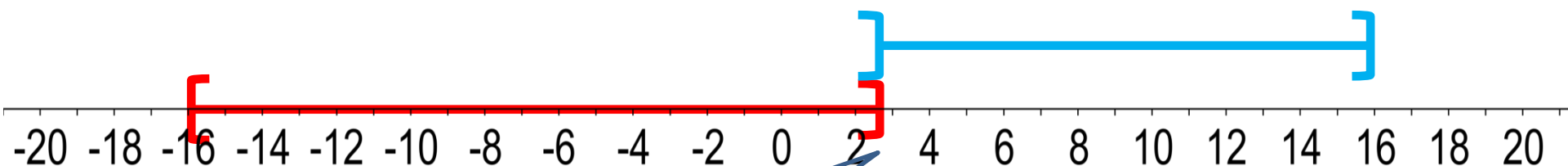
$$-\frac{3}{4} = -0,75$$

$$\left]-2; -\frac{3}{4}\right] \cup \left[-\frac{3}{5}; 2\right[$$

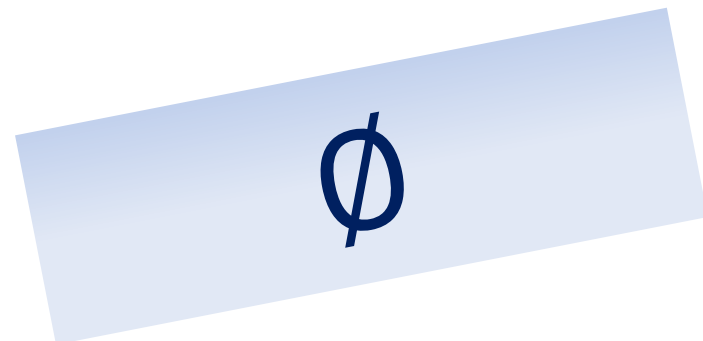


Nº7

$$[-4^2; \sqrt{8}] \cap [2\sqrt{2}; (-4)^2]$$

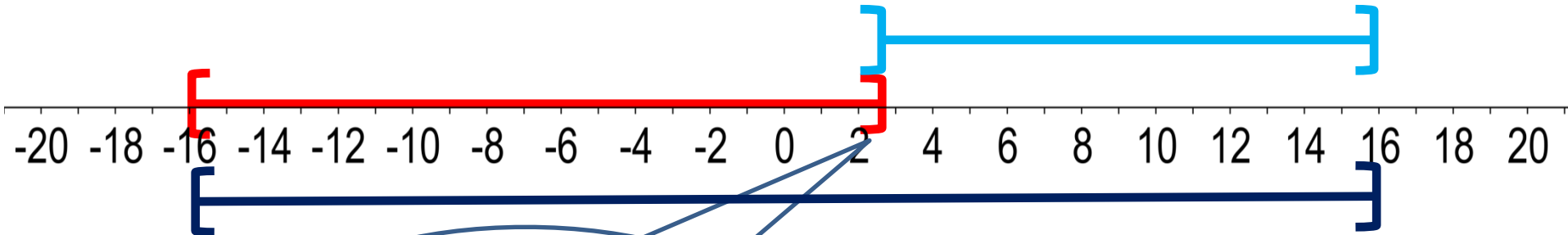


$$\sqrt{8} = 2\sqrt{2} \approx 2,8$$



N°8

$$[-4^2; \sqrt{8}] \cup [2\sqrt{2}; (-4)^2]$$

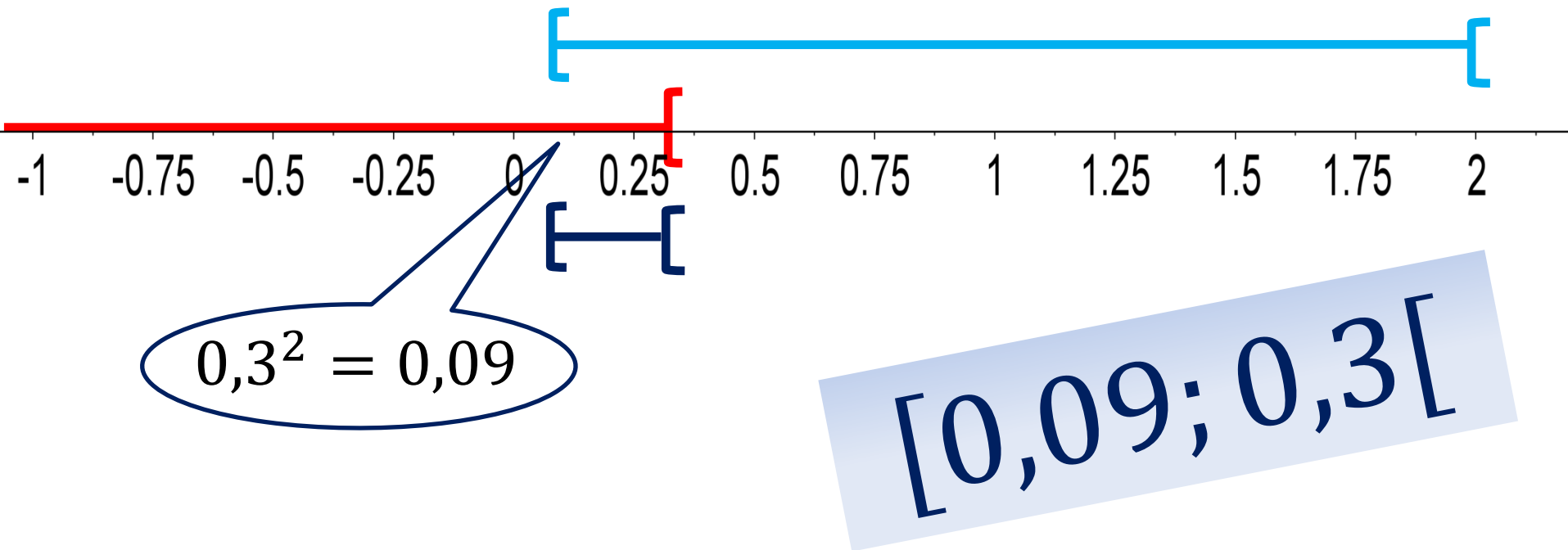


$$\sqrt{8} = 2\sqrt{2} \approx 2,8$$

$$[-16; 16]$$

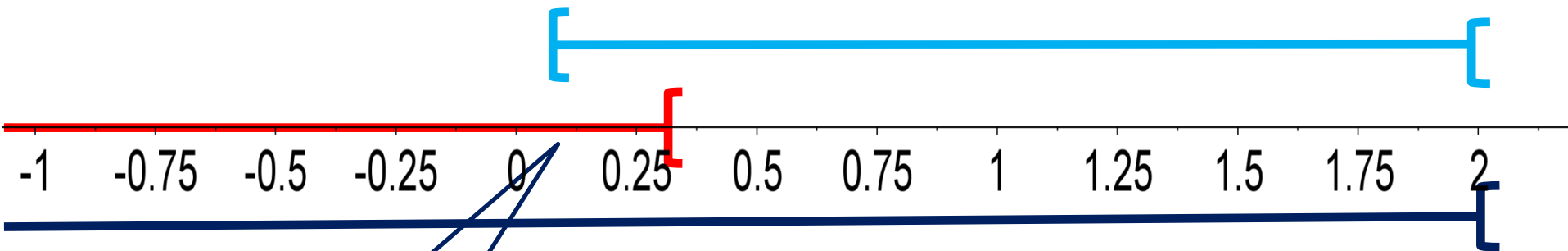
Nº9

$$]-\infty; 0,3[\cap [0,3^2; 2[$$



N°10

$$]-\infty; 0,3[\cup [0,3^2; 2[$$



$$]-\infty; 2[$$

Fin