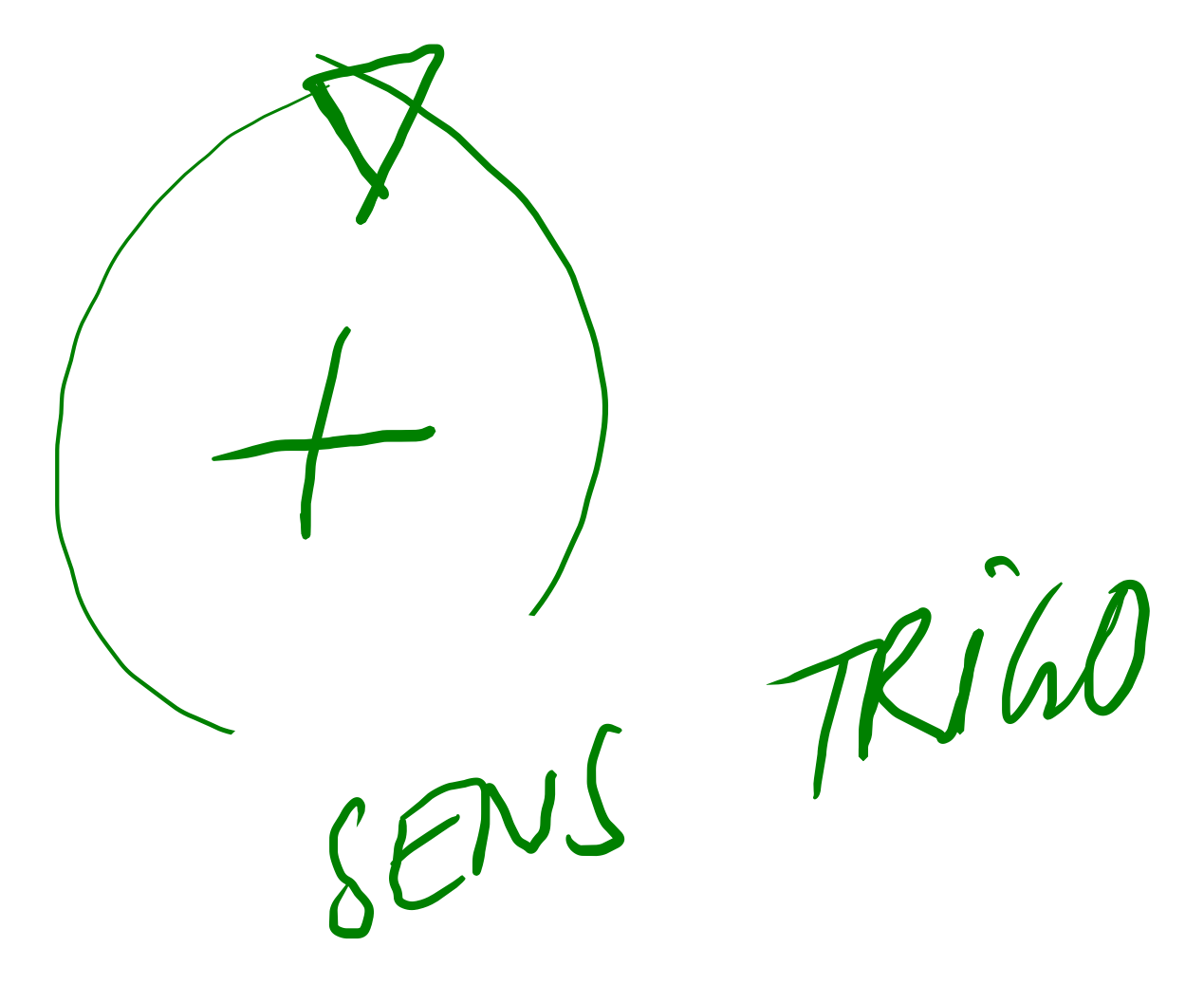
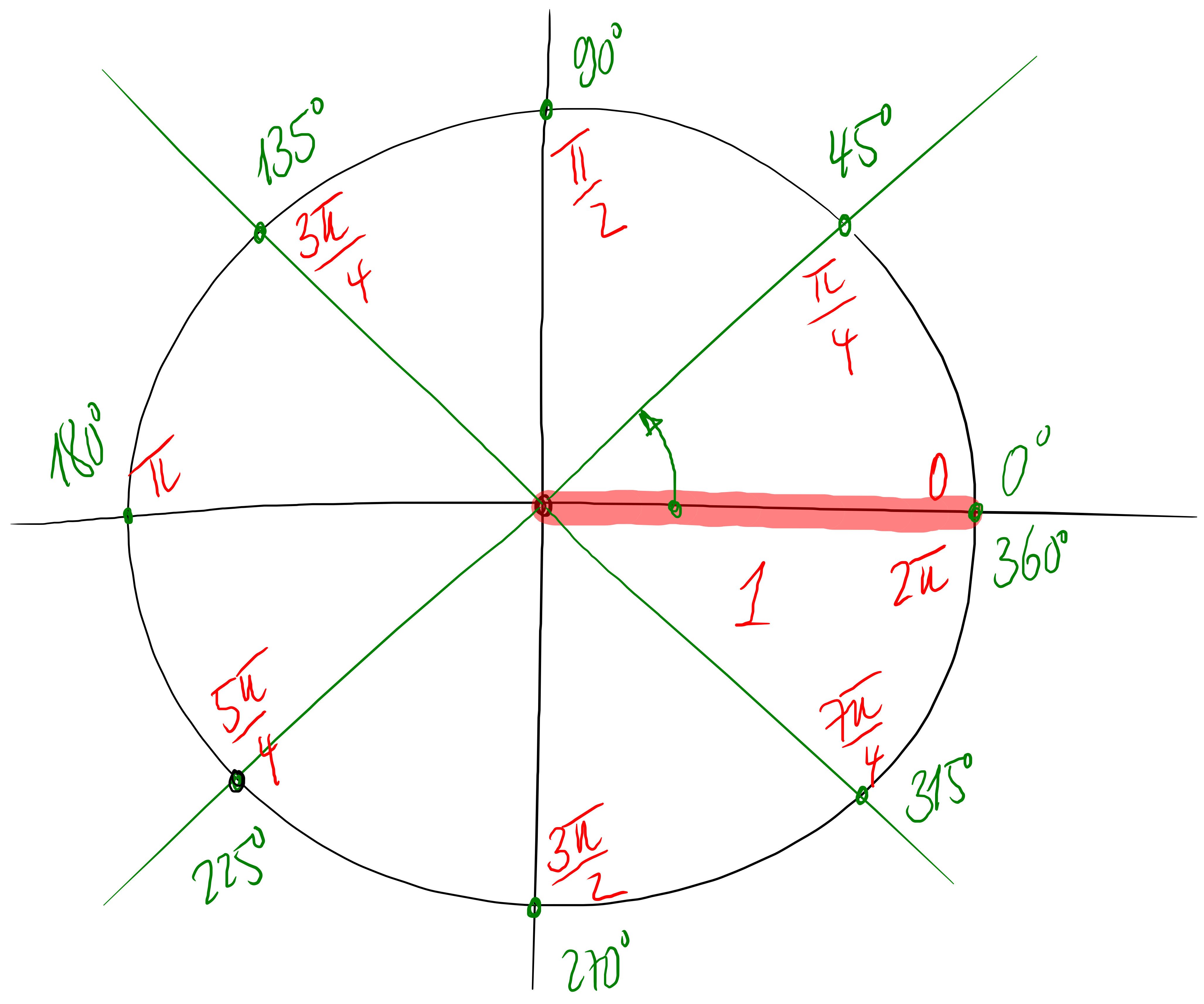


Cercle trigonométrique



A' connaître
par ♥ pour
le TE
de trigo.



2.5.1 bm 2.5.13 e

2.5.2 f

2.5.3 i

2.5.4 d

2.5.6 f

2.5.7 adgj

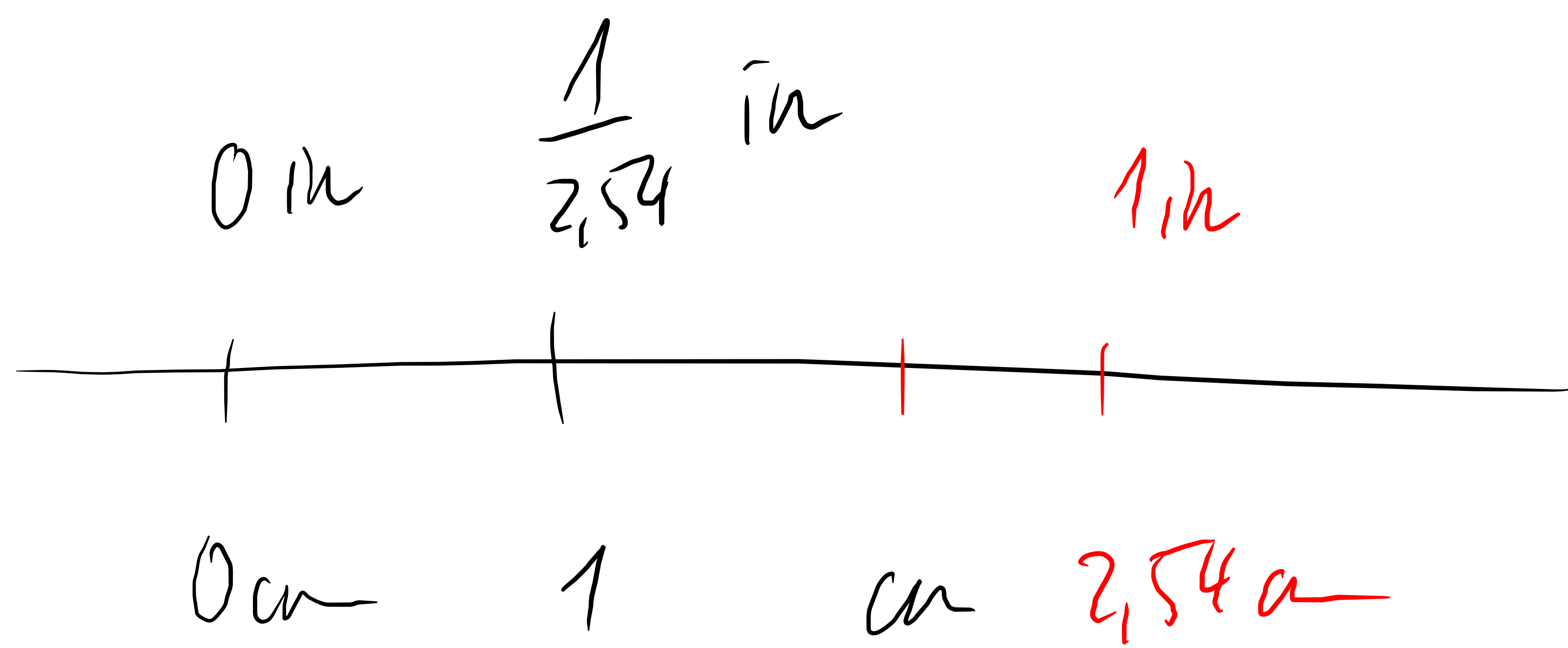
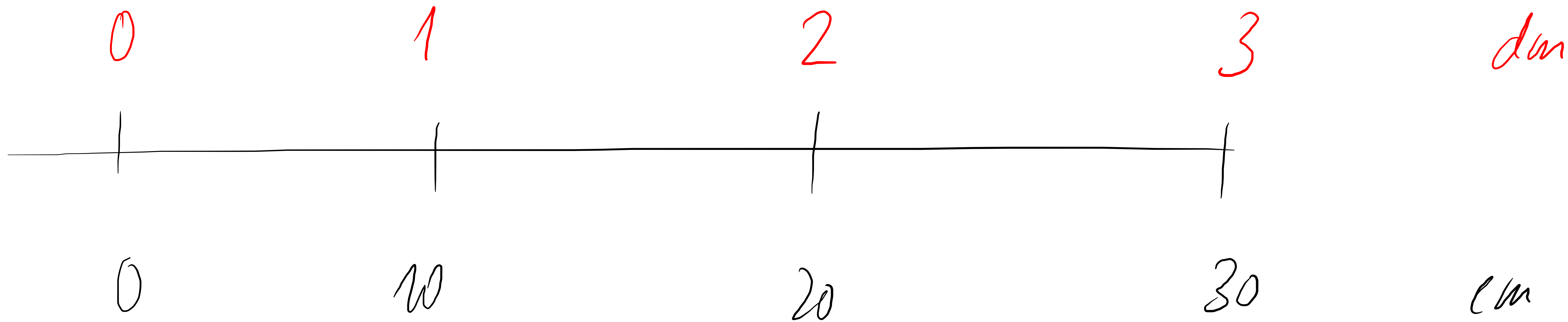
2.5.8 f

2.5.11 cf

2.5.12 ghi

A' répartir d'ici

en 9 II 2024



α_{deg}	180°
α_{rad}	π

45°	180°
$\frac{\pi}{4}$	π

α_{deg}	360°
α_{rad}	2π

$$5x^2 + \frac{29}{3}x - \frac{14}{3} = \boxed{5x^2 + 9,6x - 4,6}$$

$$a = 5 \quad b = \frac{29}{3} = 9,6 \quad c = -\frac{14}{3} = -4,6$$

solutions

$$x_1 = \frac{-b + \sqrt{\Delta}}{2a} \quad x_2 = \frac{-b - \sqrt{\Delta}}{2a}$$

$$\Delta = \left(\frac{29}{3}\right)^2 - 4 \cdot 5 \cdot \left(-\frac{14}{3}\right)$$

$$= (9,6)^2 - 4 \cdot 5 \cdot (-4,6) = 186,7$$

$$= \frac{841}{9} + \frac{280}{3} = \frac{841 + 840}{9}$$

$$5x^2 + \frac{29}{3}x - \frac{14}{3} = 5(x - x_1)(x - x_2)$$

$$x_1 = \frac{-\frac{29}{3} + \frac{41}{3}}{10} = \frac{4}{10} = \frac{2}{5} = 0,4$$

$$x_2 = \frac{-\frac{29}{3} - \frac{41}{3}}{10} = -\frac{7}{3} = -2,3$$

$$= 5\left(x + \frac{7}{3}\right)\left(x - \frac{2}{5}\right)$$

$$= 5(x + 2,3)(x - 0,4)$$

$$\left(\frac{41}{3}\right)^2 = \frac{1681}{9}$$

$$2x^2 + 7x - 15 = 0$$

$$x_1 = \frac{-7 + \sqrt{49 + 120}}{4} = \frac{3}{2}$$

$$x_2 = \frac{-7 - \sqrt{49 + 120}}{4} = -5$$

$$2\left(x - \frac{3}{2}\right)(x + 5)$$

$$ax^2 + bx + c = a(x - x_1)(x - x_2)$$

$$x_1 = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

$$x_2 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$$

$$2x^2 + 10x - 28 = 0$$

$$\Delta = 100 - 4 \cdot 2 \cdot (-28)$$

$$= 100 + 4 \cdot 56$$

$$= 100 + 224 = 324$$

$$\begin{aligned}(2x+1)^2 - (x-1)(x+11) &= (3x-2)^2 - (3x-4)^2 \\ 4x^2 + 4x + 1 - (x^2 + 10x - 11) &= 9x^2 - 12x + 4 - (9x^2 - 24x + 16) \\ 4x^2 + 4x + 1 - x^2 - 10x + 11 &= 9x^2 - 12x + 4 - 9x^2 + 24x - 16\end{aligned}$$

$$3x^2 - 6x + 12 = 12x - 12$$

$$3x^2 - 18x + 24 = 0$$

$$x^2 - 6x + 8 = 0$$

$$(x-2)(x-4) = 0$$

$$x=2 \quad / \quad x=4$$

$$28x^3 + x^2 - 2x + 0 = 0$$

$$x(28x^2 + x - 2) = 0$$



$$x=0$$