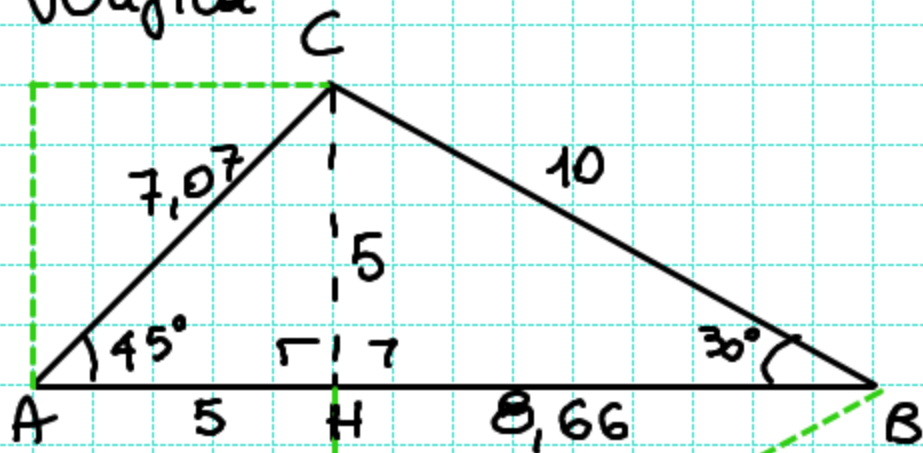


⑥ Verifica



$$\overline{AH} = \overline{HC} = 5 \text{ cm}$$

$$\overline{BC} = \overline{CH} \cdot 2 = 10 \text{ cm}$$

$$\overline{AC} = \overline{AH} \cdot \sqrt{2} = 5\sqrt{2} = 7,07 \text{ cm}$$

$$\overline{HB} = \frac{\overline{BC} \sqrt{3}}{2} = 8,66 \text{ cm}$$

④

GeoGebra Classico

<https://www.geogebra.org/classic>

$\overline{AB} = 2$

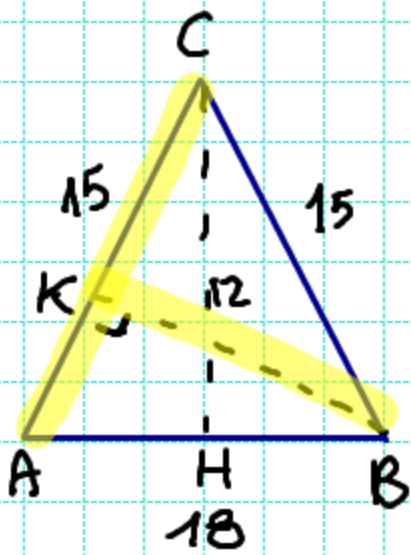
$$a = \frac{l \cdot \sqrt{3}}{2} = \frac{2\sqrt{3}}{2} = 1,732 \text{ cm}$$

$$A_{\text{esagono}} = \frac{2p \cdot a}{2} = \frac{6 \cdot 2 \cdot 1,732}{2} = 10,392 \text{ cm}^2$$

$A_{\text{Tot}} = A_{\text{es.}} \cdot 2$

$p = l \cdot 12 = 24 \text{ cm}$

①



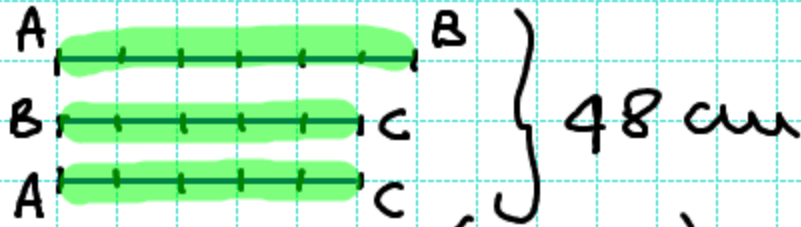
$$2p = 48 \text{ cm}$$

$$\overline{AB} = \frac{6}{5} \overline{BC}$$

$$\overline{BC} \cong \overline{AC}$$

$$A = ?$$

$$\overline{BK} = ?$$



$$p = \frac{2p}{2} = \frac{48}{2} = 24 \text{ cm}$$

$$\overline{AB} = \frac{p}{2} \cdot \frac{6}{5} = \frac{24}{2} \cdot \frac{6}{5} = 12 \cdot \frac{6}{5} = 14,4 \text{ cm}$$

$$\overline{BC} = \frac{p}{2} \cdot \frac{5}{5} = \frac{24}{2} \cdot 1 = 12 \text{ cm} = \overline{AC}$$

$$\overline{HB} = \overline{AB} : 2 = 14,4 : 2 = 7,2 \text{ cm}$$

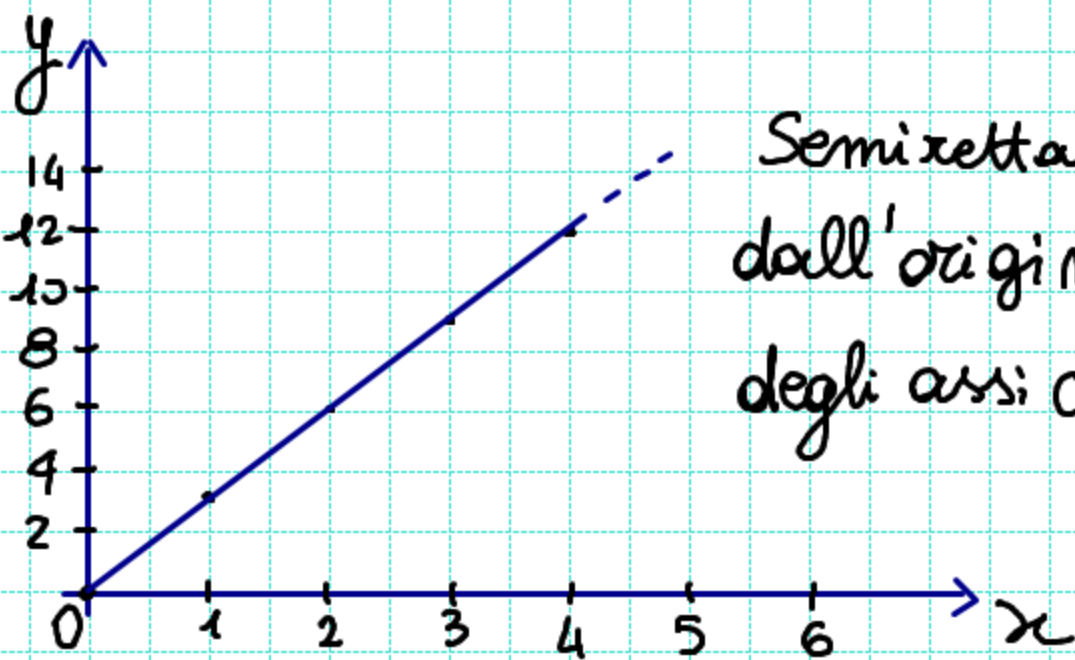
$$\overline{CH} = \sqrt{\overline{BC}^2 - \overline{HB}^2} = \sqrt{144 - 51,84} = \sqrt{92,16} = 9,6 \text{ cm}$$

$$A = \frac{\overline{AB} \cdot \overline{CH}}{2} = \frac{14,4 \cdot 9,6}{2} = \frac{138,24}{2} = 69,12 \text{ cm}^2$$

$$\overline{BK} = \frac{A \cdot 2}{\overline{AC}} = \frac{69,12 \cdot 2}{12} = \frac{138,24}{12} = 11,52 \text{ cm}$$

$y = 3x$ Proporz. DIRETTA $k=3$

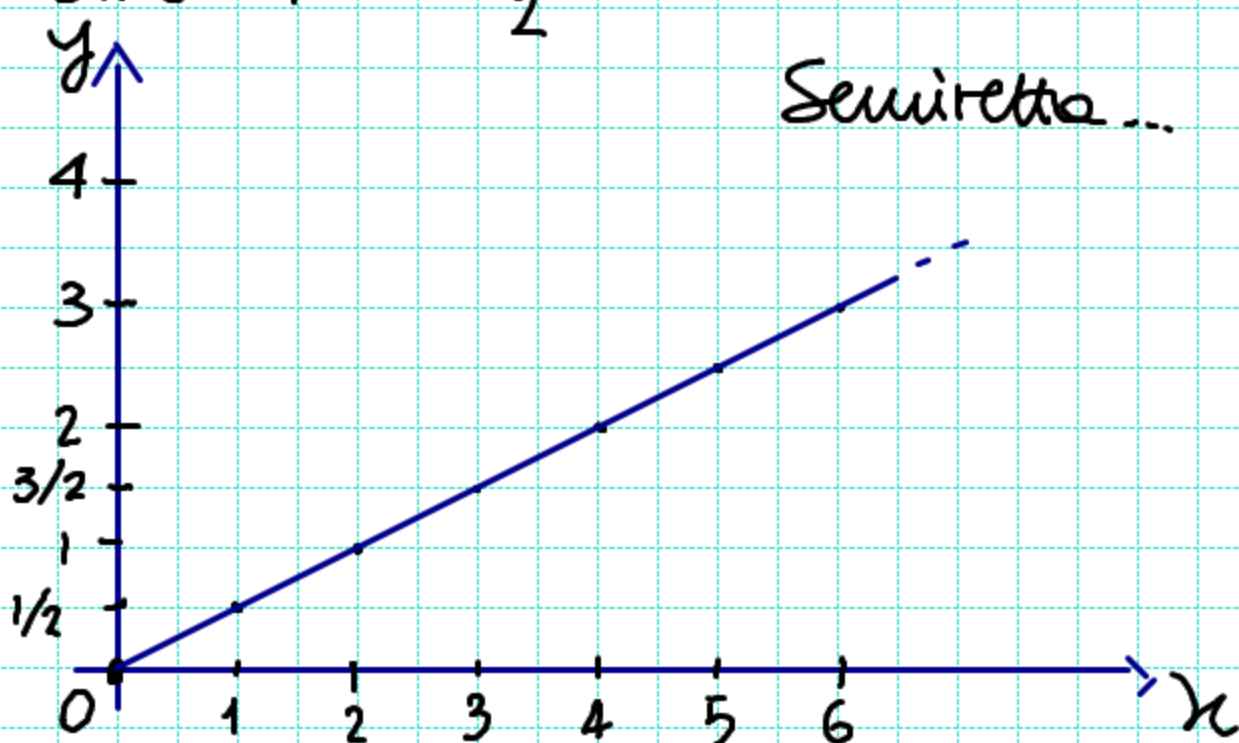
x	y
0	$3 \cdot 0 = 0$
1	$3 \cdot 1 = 3$
2	$3 \cdot 2 = 6$
3	$3 \cdot 3 = 9$
4	$3 \cdot 4 = 12$



Semiretta uscente dall'origine degli assi cartes.

$y = \frac{1}{2}x$ PROP. DIRETTA $k = \frac{1}{2}$

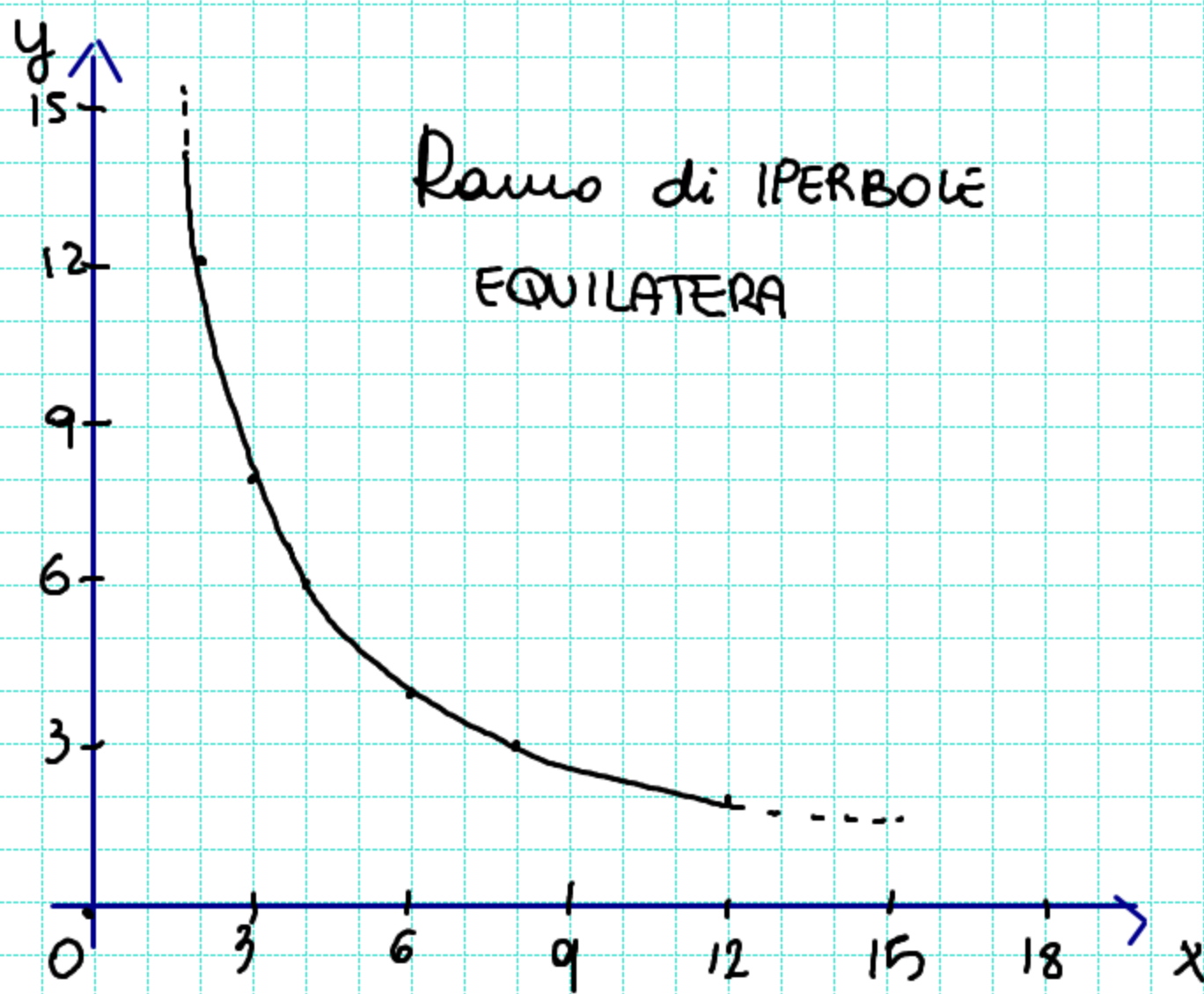
x	y
0	$\frac{1}{2} \cdot 0 = 0$
1	$\frac{1}{2} \cdot 1 = \frac{1}{2}$
2	$\frac{1}{2} \cdot 2 = 1$
3	$\frac{1}{2} \cdot 3 = \frac{3}{2}$
4	$\frac{1}{2} \cdot 4 = 2$
5	$\frac{1}{2} \cdot 5 = \frac{5}{2}$
6	$\frac{1}{2} \cdot 6 = 3$



Semiretta...

$y = \frac{24}{x}$ prop. INVERSA $k=24$

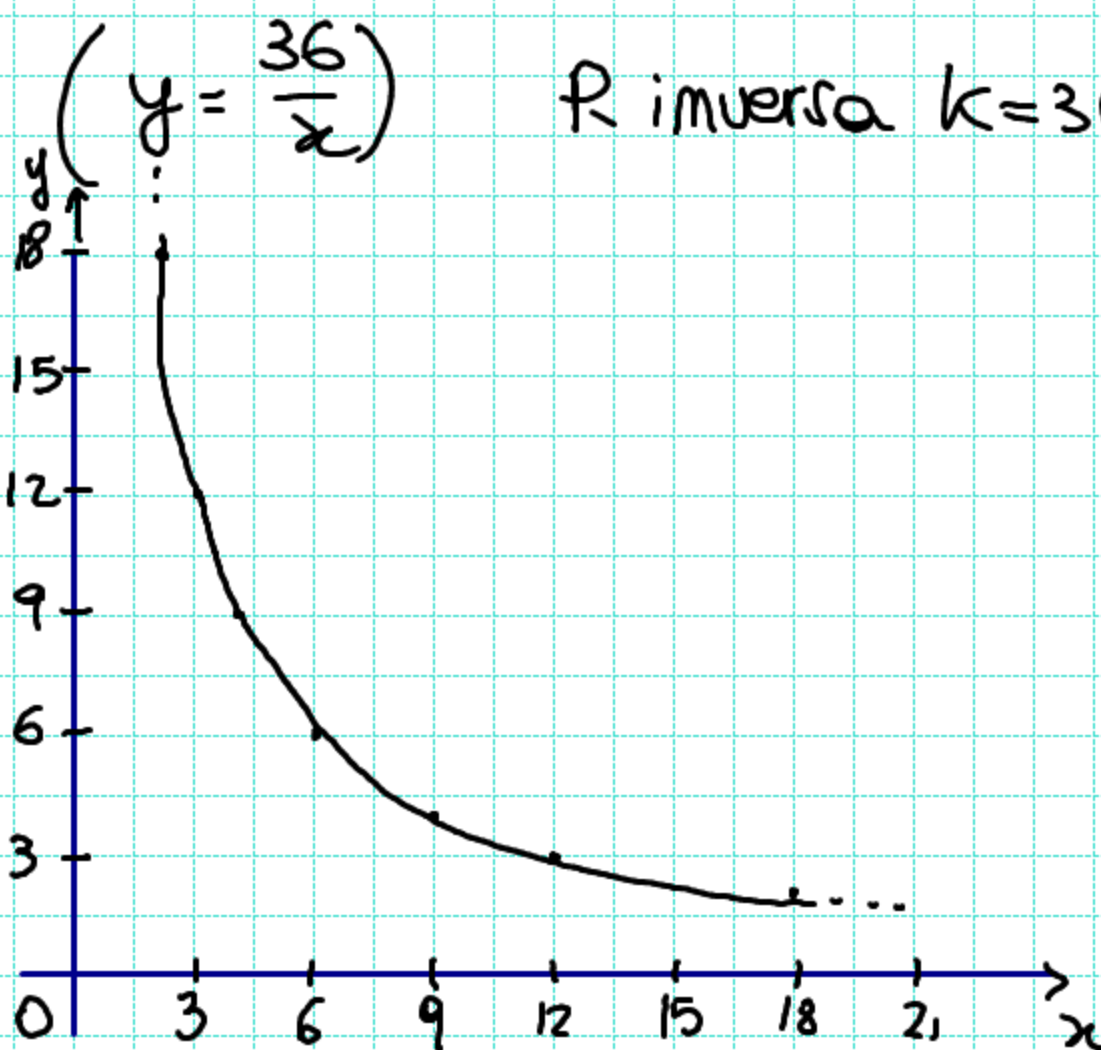
x	y
1	$24/1 = 24$
2	$24/2 = 12$
3	$24/3 = 8$
4	$24/4 = 6$
6	4
8	3
12	2
24	1



Ramo di IPERBOLE EQUILATERA

$xy = 36$ ($y = \frac{36}{x}$) R inversa $k=36$

x	y
1	36
2	18
3	12
4	9
6	6
9	4
12	3



②

superficie (m ²)	m° piastrelle
35	210
25	x

$$35 : 25 = 210 : x$$

$$x = \frac{25 \cdot 210}{35} = 150 \text{ piastrelle}$$

③

m° auto	m° abitanti
600	1000
x	60'000'000

$$600 : x = 1000 : 60'000'000$$

$$x = \frac{600 \cdot 60'000'000}{1000} = 36'000'000 \text{ m° AUTO in Italia}$$

lunghezza fila = m° auto · lungh. auto = 36'000'000 · 4 m =
= 144'000'000 m = 144'000 km \approx 143'000 km
di diametro Giove.

④

m° rate	importo rate (€)
72	900
50	x

$$72 : 50 = x : 900$$

$$x = \frac{72 \cdot 900}{50} = €1296$$

⑤

M: € 50		Vincita M (x) = ?
G: € 30		Vincita G (y) = ?
A: € 45		" A (z) = ?

Vincom € 60'000

$$x + y + z = 60'000$$

$$x : 50 = y : 30 = z : 45$$

$$(x + y + z) : (50 + 30 + 45) = x : 50$$

$$60'000 : 125 = x : 50$$

$$x = \frac{60'000 \cdot 50}{125} = € 24'000 \text{ vincita da M.}$$

$$60'000 : 125 = y : 30$$

$$y = \dots$$

$$60'000 : 125 = z : 45$$

⑥

	z = ...		
	eta'	ore	
S	6	3	→
E	8	2	
A	12	4	
	(INV)	(DIR)	

$$\frac{1}{6} \cdot 3 = \frac{3}{6} = \frac{1}{2}$$

$$\frac{1}{8} \cdot 2 = \frac{1}{4}$$

$$\frac{1}{12} \cdot 4 = \frac{1}{3}$$

$$x : \frac{1}{2} = y : \frac{1}{4} = z : \frac{1}{3} \quad x + y + z = € 1794$$

$$(x + y + z) : \left(\frac{1}{2} + \frac{1}{4} + \frac{1}{3}\right) = x : \frac{1}{2}$$

$$1794 : \frac{6 + 3 + 4}{12} = x : \frac{1}{2}$$

$$1794 : \frac{13}{12} = x : \frac{1}{2}$$

$$x = 1794 \cdot \frac{1}{2} \cdot \frac{12}{13} = € 828$$

$$1794 : \frac{13}{12} = y : \frac{1}{4}$$

$$y = \dots$$

$$z = \dots$$