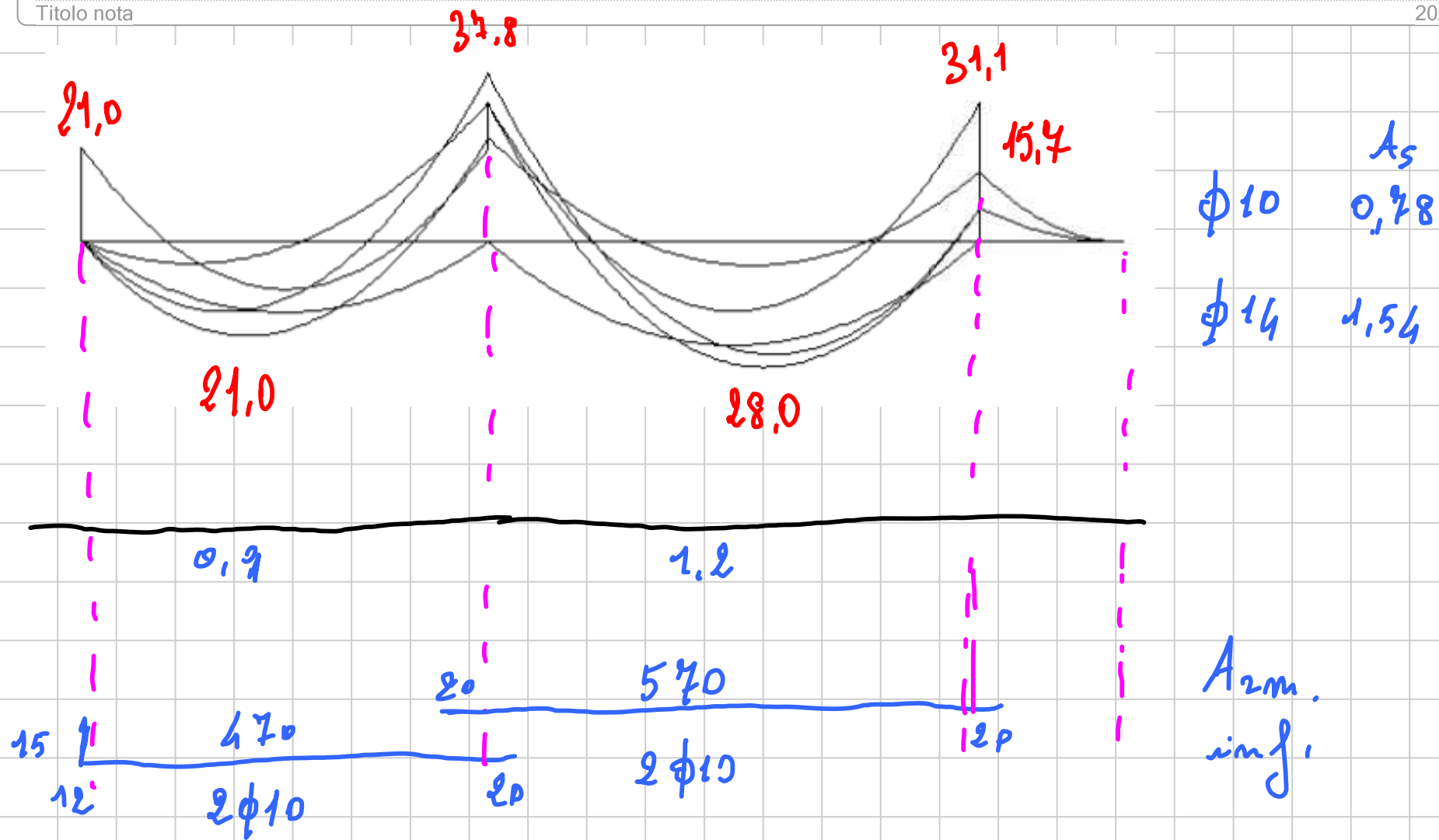


.....
Titolo nota

20/04/2015



Complete

M_{Ed}

d

1

21,0

0,22

2

28,0

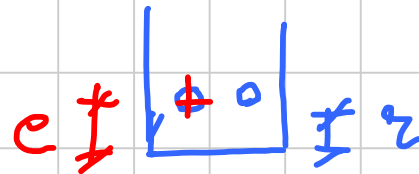
0,22

$h = 25 \text{ cm}$

$z = 2,5 \text{ cm}$

$e = z + \frac{\phi}{2} = 2,5 + \frac{1}{2} = 3 \text{ cm}$

$d = h - c = 22 \text{ cm}$



$$M_{Ed} = 0,9 d f_{yd} A_s$$



M_{Ed}



$$A_s = \frac{M_{Ed}}{0,9 d f_{yd}}$$



Complete	M_{Ed}	d	$A_s (cm^2)$	$A_s (at least H_0)$
1	21,0	0,22	2,71	$2,71/3 = 0,90 cm^2$
2	28,0	0,22	3,61	$3,61/3 = 1,20 cm^2$

$$M_{Ed} = 0,9 d f_{yd} A_s$$

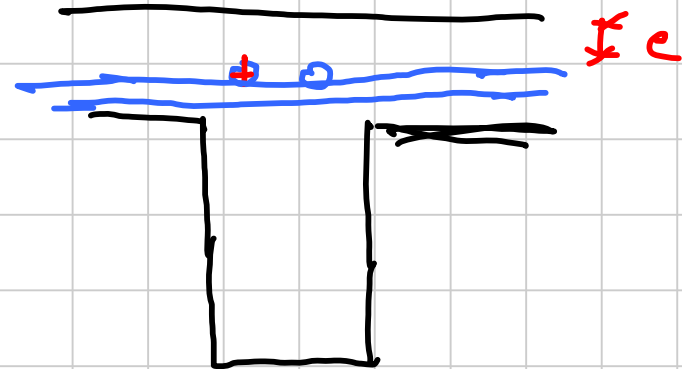
$$A_s = \frac{M_{Ed}}{0,9 d f_{yd}} = \frac{21}{0,9 \times 0,22 \times 391,3} \times \frac{10^3}{10^2} =$$

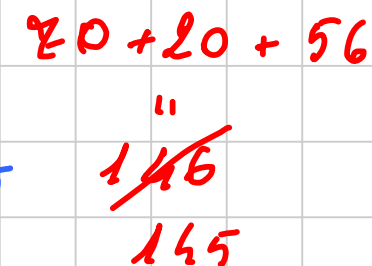
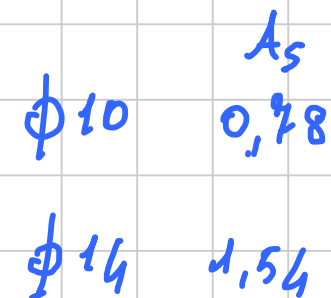
$A_{h_{gy}} =$	M_{Ed}	d	$A_s (1m)$	$A_s (transverse)$
1	21.0	0.22	2.71	0.90 cm ²
2	37.8	0.22	4.88	1.63 cm ²
3	31.1	0.18	4.90	1.63 cm ²

$$A_s = \frac{M_{Ed}}{0.9 d f_{yd}}$$

$$e = z + \phi/2$$

$$d = h - e$$





A_{2m} dup.

$$M_{Rd} (1\phi 10) = 3 \times 0,9 \times A_s f_{yd} = 3 \times 0,9 \times 0,22 \times 0,78 \times \frac{391,3}{10} = 18 \text{ kNm}$$

$$M_{Rd} (1\phi 14) = 3 \times 0,9 \times 0,22 \times 1,54 \times \frac{391,3}{10} = 36 \text{ kNm}$$

$$M_{Rd} (1\phi 10) = 3 \times 0,9 \times 0,18 \times 0,78 \times \frac{391,3}{10} = 14,8 \text{ kNm}$$

$$M_{Rd} (1\phi 14) = 3 \times 0,9 \times 0,18 \times 1,54 \times \frac{391,3}{10} = 29,3 \text{ kNm}$$