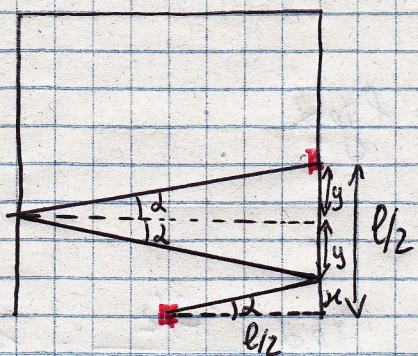


1° caso



1) $\alpha = 45^\circ$

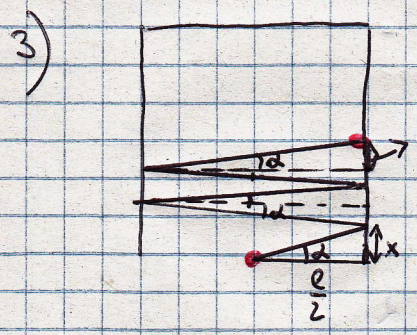
2) $\frac{l}{2} = x + 2y$
 $x = \frac{l}{2} \operatorname{tg} \alpha$
 $y = l \operatorname{tg} \alpha$

quindi $\frac{l}{2} = \frac{l}{2} \operatorname{tg} \alpha + 2l \operatorname{tg} \alpha$

$\operatorname{tg} \alpha \left(\frac{l}{2} + 2l \right) = \frac{l}{2}$

$\operatorname{tg} \alpha = \frac{\frac{1}{2}}{\frac{5}{2}} = \frac{1}{5}$

$\operatorname{tg} \alpha = \frac{1}{5}$



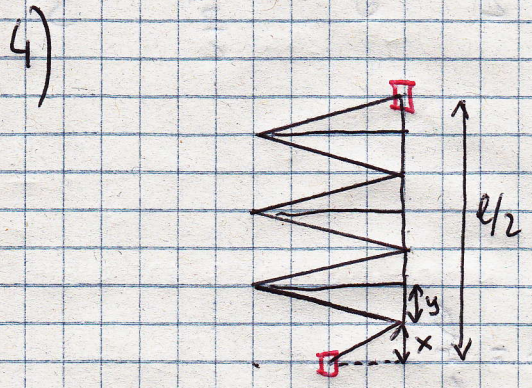
$x = \frac{l}{2} \operatorname{tg} \alpha$
 $y = l \operatorname{tg} \alpha$
 $\frac{l}{2} = x + 4y$

$\frac{l}{2} = \frac{l}{2} \operatorname{tg} \alpha + 4l \operatorname{tg} \alpha$

$\operatorname{tg} \alpha \leq \frac{l/2}{(l/2 + 4l)}$

$\operatorname{tg} \alpha = \frac{1/2}{\frac{9}{2}} = \frac{1}{9}$

$\operatorname{tg} \alpha = \frac{1}{9}$



$\frac{l}{2} = \frac{l}{2} \operatorname{tg} \alpha + 6l \operatorname{tg} \alpha$

$\operatorname{tg} \alpha = \frac{l/2}{(l/2 + 6l)}$

$\operatorname{tg} \alpha = \frac{1/2}{\frac{13}{2}} = \frac{1}{13}$

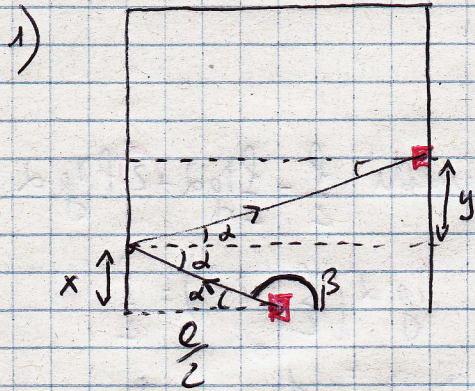
$\operatorname{tg} \alpha = \frac{1}{13}$

FORMULA GENERALE

$\frac{l}{2} = \frac{l}{2} \operatorname{tg} \alpha + 2n l \operatorname{tg} \alpha$

$n \in \mathbb{N}$
 $n =$ vertice sulle pareti.

2° CASO

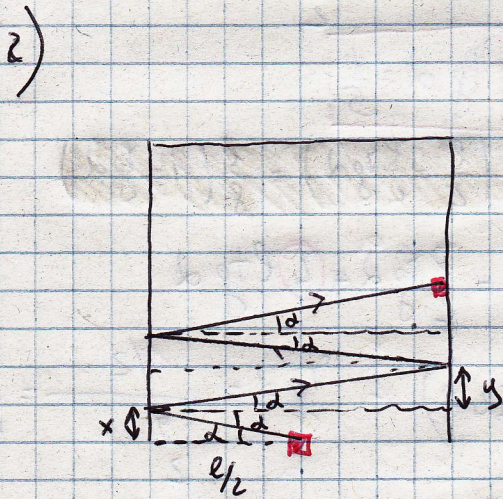


$$x = -\frac{l}{2} \gamma \alpha \quad y = l \gamma \alpha$$

$$-\frac{l}{2} \gamma \alpha + l \gamma \alpha = \frac{l}{2}$$

$$\gamma \alpha \left(l - \frac{l}{2} \right) = \frac{l}{2} \quad \gamma \alpha = \frac{l/2}{l/2} = 1$$

$\alpha = 45^\circ$ quindi $\beta = 135^\circ$.



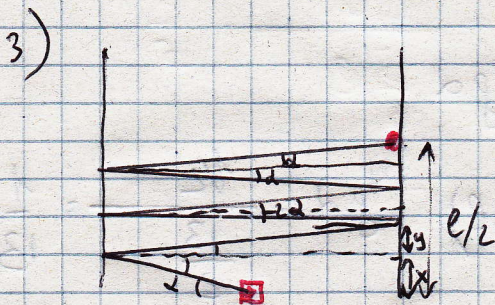
$$x + 3y = \frac{l}{2}$$

$$x = -\frac{l}{2} \gamma \alpha \quad y = l \gamma \alpha$$

$$-\frac{l}{2} \gamma \alpha + 3l \gamma \alpha = \frac{l}{2}$$

$$\gamma \alpha \left(3l - \frac{l}{2} \right) = \frac{l}{2} \quad \gamma \alpha = \frac{\frac{l}{2}}{\frac{5l}{2}} = \frac{1}{5}$$

$\gamma \alpha = \frac{1}{5}$



$$\frac{l}{2} = x + 5y$$

$$-\frac{l}{2} \gamma \alpha + 5l \gamma \alpha = \frac{l}{2}$$

$$\gamma \alpha \left(5l - \frac{l}{2} \right) = \frac{l}{2} \quad \gamma \alpha = \frac{\frac{l}{2}}{\frac{9l}{2}} = \frac{1}{9}$$

$\gamma \alpha = \frac{1}{9}$

FORMULA GENERALE

$$-\frac{l}{2} \gamma \alpha + (2m+1) l \gamma \alpha = \frac{l}{2} \quad m \in \mathbb{N}$$