

CÁLCULO DE  $\int \frac{\tau ds}{A_1}$  Y  $\int \frac{\tau ds}{A_2}$  CUANDO LAS CONSTANTES ARBITRARIAS SON 1,63 Y 2,23

$$\int_{A_1} \tau ds = S_1 + S_2 + S_3 + S_4 - (S_5 + S_6)$$

$S_1 = 1,195 \times 5,65 =$	$6,751$	
$S_2 = 0,355 \times 2,37 =$	$0,841$	
$0,355 \times 1,60 =$	$0,568$	
$S_3 = 0,560 \times 2,87 =$	$1,607$	
$0,575 \times 1,80 =$	$1,035$	
$0,545 \times 1,25 =$	$0,681$	
$S_4 = 0,22 \times 0,55 =$	$0,121$	
$0,22 \times 0,15 =$	$0,033$	$11,637$
$- S_5 = \frac{0,27 \times 1,40}{2} =$	$0,189$	
$- S_6 = 0,65 \times 2,70 =$	$1,701$	
$0,565 \times 2,81 =$	$1,587$	$3,477$
		$8,160$

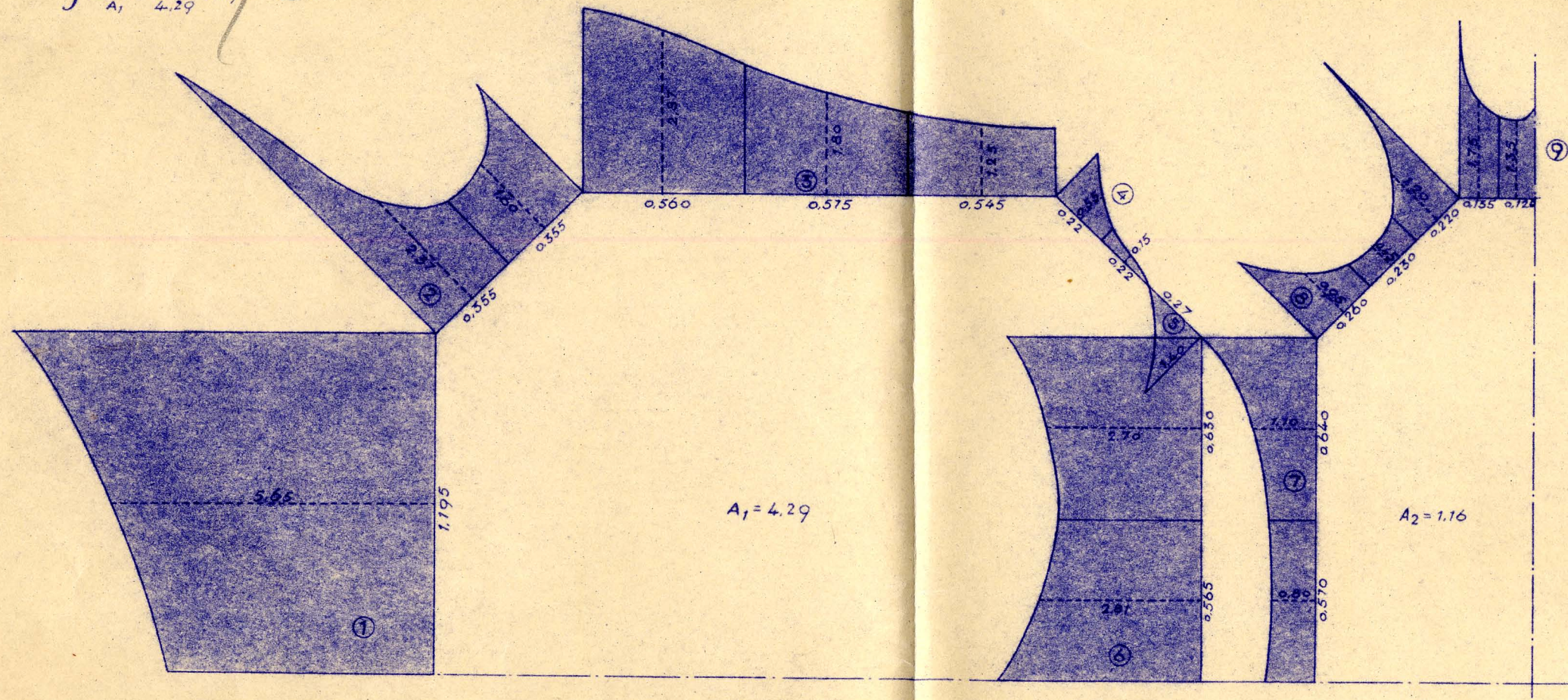
$$\int \frac{\tau ds}{A_1} = \frac{8,16}{4,29} = 1,90$$

Fig 11 - Diagramas de pendientes en los contornos para  $\phi'''$

$$\int_{A_2} \tau ds = S_7 + S_8 + S_9$$

$S_7 = 0,570 \times 0,80 =$	$0,427$
$0,640 \times 1,10 =$	$0,704$
$S_8 = 0,260 \times 0,95 =$	$0,247$
$0,230 \times 0,45 =$	$0,103$
$0,220 \times 1,20 =$	$0,264$
$S_9 = 0,135 \times 1,75 =$	$0,236$
$0,125 \times 1,35 =$	$0,168$
	$2,149$

$$\int \frac{\tau ds}{A_2} = \frac{2,149}{1,16} = 1,85$$



proc.

comp.

dib.

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