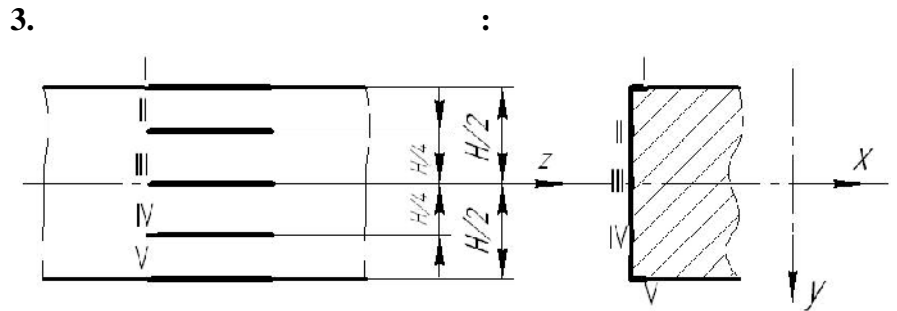
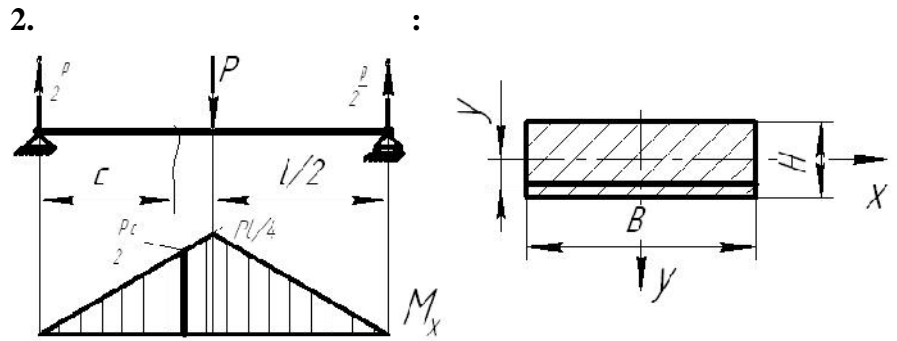


1. : -
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4. :

$l,$,	$B,$	$H,$	$J_x = \frac{BH^3}{12},$	⁴
60	27	6	3	13,5	

5. :

$$y_I = -\frac{H}{2} : \sigma_I = -\frac{PcH}{4J_z} = -\frac{10000 \cdot 27 \cdot 10^{-2} \cdot 3 \cdot 10^{-2}}{4 \cdot 13,5 \cdot 10^{-8}} = -150 ;$$

$$y_{II} = -\frac{H}{4} : \sigma_{II} = -\frac{PcH}{8J_z} = -\frac{10000 \cdot 27 \cdot 10^{-2} \cdot 3 \cdot 10^{-2}}{8 \cdot 13,5 \cdot 10^{-8}} = -75 ;$$

$$y_{III} = 0 : \sigma_{III} = 0 ;$$

$$y_{IV} = \frac{H}{4} : \sigma_{IV} = \frac{PcH}{8J_z} = \frac{10000 \cdot 27 \cdot 10^{-2} \cdot 3 \cdot 10^{-2}}{8 \cdot 13,5 \cdot 10^{-8}} = 75 ;$$

$$y_V = \frac{H}{2} : \sigma_V = \frac{PcH}{4J_z} = \frac{10000 \cdot 27 \cdot 10^{-2} \cdot 3 \cdot 10^{-2}}{4 \cdot 13,5 \cdot 10^{-8}} = 150 .$$

6. () -

:

$$E = 2 \cdot 10^5 ; k = 2,05 ; R = 122,28 ; \Delta R_T = 0,1 ;$$

$$\Delta J_T = 35 \text{ mA} ; \Delta \sigma_T = \frac{\Delta R_T \cdot E}{k \cdot R} = \frac{0,1 \cdot 2 \cdot 10^5}{2,05 \cdot 122,28} = 79,78 .$$

$$\mu = \frac{\sigma_T}{\Delta J_T} = \frac{79,78}{35} = 2,28 \frac{\text{mA}}{\text{mA}} .$$

6. :

	R_M	$P_0 = 200$ (1,96)					$P = 1200$ (11,76)					$J = J - J_0, \text{ mA}$	$=\mu \cdot J, (\quad)$
		$J_0, \text{ mA}$				$J_0, \text{ mA}$	$J, \text{ mA}$				$J, \text{ mA}$		
		1	2	3	1		2	3					
		1	2	3	1		2	3					
1	122,620	0	0	0	0	-69	-68	-69	-68,67	-68,67	-156,57		
2	121,896	0	0	0	0	-30	-30	-29	-29,67	-29,67	-67,65		
3	122,280	0	0	0	0	0	1	1	0,67	0,67	1,5		
4	121,913	0	0	0	0	30	31	29	30	30	68,4		
5	122,24	0	0	0	0	68	68	69	68,33	68,33	155,72		

7. :

$$\sigma_I = \mu \cdot \Delta J^I = 2,28 \cdot (-68,67) = -156,57 ;$$

$$\sigma_{II} = \mu \cdot \Delta J^{II} = 2,28 \cdot (-29,67) = -67,65 ;$$

$$\sigma_{III} = \mu \cdot \Delta J^{III} = 2,28 \cdot 0,67 = 1,5 ;$$

$$\sigma_{IV} = \mu \cdot \Delta J^{IV} = 2,28 \cdot 30 = 68,4 ;$$

$$\sigma_V = \mu \cdot \Delta J^V = 2,28 \cdot 68,33 = 155,72 .$$

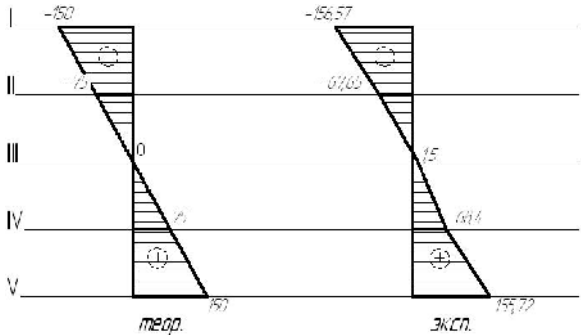
8.

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№	Y	$\sigma_{\text{доп}}$	$\sigma_{\text{факт}}$	$\delta, \%$
1	$-H/2$	-150	-156,57	4,38
2	$-H/4$	-75	-67,65	9,8
3	0	0	1,5	0
4	$H/4$	75	68,4	8,8
5	$H/2$	150	155,72	3,81

9.

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10.

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