

BAREM DE EVALUARE ȘI DE NOTARE

Varianta 189

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SUBIECTUL I		(30 de puncte)
1.	0,3	5p
2.	150, 153, 156, 159	5p
3.	50	5p
4.	5	5p
5.	450π	5p
6.	$\frac{1}{2}$	5p
SUBIECTUL II		(30 de puncte)
1.	Desen	4p
2.	$m_a = (a + b) : 2$ $m_a = 7$ $m_g = \sqrt{a \cdot b}$ $m_g = 1$	1p 1p 1p 2p
3.	$\frac{a}{2} = \frac{b}{5}$ $a + b = 280$ $a = 80$ $b = 200$	2p 1p 1p 1p
4.	a) $1 - \frac{x}{x-3} = -\frac{3}{x-3}$	2p

	$1 + \frac{3}{x-3} = \frac{x}{x-3}$ <p>Finalizare</p>	2p 1p
	b) $x \in \{-3; -1; 1\}$	5p
5	$2x - 3 = -3x + 2$ $x = 1$ $y = -1$ $G_f \cap G_g = P(1; -1)$	2p 1p 1p 1p
SUBIECTUL III		(30 de puncte)
1.	a) $P = 4 \cdot l$ $l = 18\text{cm}$	1p 4p
	b) $R = 6\text{cm}$ $A_{\text{material îndepărtat}} = 2\pi R^2$ $A_{\text{material îndepărtat}} = 72\pi\text{cm}^2$	1p 2p 2p
	c) $A_{\text{pătrat}} = 324\text{cm}^2$ $A_{\text{figură}} = 324 - 72\pi = 36(9 - 2\pi)\text{cm}^2$	2p 3p
2.	a) $h_{\text{con}} = 40\text{ cm}$ $h_{\text{cilindru}} = 2\text{m} = 200\text{cm}$ $H_{\text{coloană}} = 240\text{ cm} (=2,4\text{ m})$	3p 1p 1p
	b) $A_l_{\text{cilindru}} = 12000\pi\text{cm}^2$ $A_b = 900\pi\text{cm}^2$ $A_l_{\text{con}} = 1500\pi\text{cm}^2$	1p 1p 1p

	$A_t = 14400 \pi \text{cm}^2$	2p
	c) $V \text{ cilindru} = 180000 \pi \text{cm}^3$	1p
	$V \text{ con} = 12000 \pi \text{cm}^3$	1p
	$V \text{ coloană} = 192000 \pi \text{cm}^3$	1p
	$m \text{ coloană} = 5003,904 \text{ kg}$	2p