

Baremul9

SUBIECTUL I		30 pc
1.	5,0503	5p
2.	$4\sqrt{5}$	5p
3.	32	5p
4.	36	5p
5.	12	5p
6.	2000	5p
SUBIECTUL al II -lea		30 pc
1.	10	5p
2.	Suma masurilor unghiurilor unui triunghi este egala cu $180(x+y+z=180)$ $\frac{x}{2} = \frac{y}{3} = \frac{z}{5} = t$ Inlocuim $x=2t$, $y=3t$ si $z=5t$ in prima relatie si obtinem $t=18$ $x=36$ $y=54$ $z=90$	1p 1p 1p 1p 1p
3.	a) $f(-1) = -2 \Rightarrow -a+b=-2$ $a=3b$ $\Rightarrow a=3$ si $b=1 \Rightarrow f(x) = 3x+1$ b) reprezentarea corecta a graficului c) $f(-3)=-8$ $f(-2)=-5$ $f(-1)=-2$ $f(0)=1$ $f(1)=4$ $f(2)=7$	2p 3p 5p 0,5p 0,5p 0,5p 0,5p 0,5p
4.	$s=-3$ $4dm=40cm$ Cubul are 12 muchii $40 \cdot 12=480cm$	2p 2p 2p 1p
SUBIECTUL al III-lea		30 pc
1.	a) $(L+5) \cdot (l-3) = Ll-30$ $(L-5) \cdot (l+5) = Ll+40$ Rezolvam sistemul si obtinem $L=25cm$ si $l=12cm$ b) $L=20$ $l=17$ $A=340cm^2$ c) $A_1 = 300cm^2$ $A_2 = 270cm^2$ $A_3 = 340cm^2$ $A_2 < A_1 < A_3$	1p 1p 3p 1p 1p 3p 1p 1p 1p 2p
2.	a) $BC=CD=12cm$ $A_{VSD} = \frac{VO \cdot BD}{2} = 48\sqrt{2}cm^2$ b) $VM=10cm$ $A_1 = 240cm^2$ $A_2 = 384cm^2$ $V = 384cm^3$ c) $OP = \frac{OV+OM}{VM} = 4,8cm$	2p 3p 2p 1p 1p 1p
		5p

