

BAREM DE NOTARE ȘI CORECTARE

Clasa a VI-a

Partea I

1. c); 2.b);3. d; 4. a); 5. b)

Partea a II-a

Problema 1

a) “ \rightarrow ”

$$\frac{x}{2} = \frac{y}{3} = \frac{z}{5} \dots\dots\dots 2p$$

$$\frac{\frac{x}{2}}{\frac{30}{30}} = \frac{\frac{y}{3}}{\frac{30}{30}} = \frac{\frac{z}{5}}{\frac{30}{30}} \dots\dots\dots 2p$$

$$(x, y, z) \text{ i.p. } (15, 10, 6) \dots\dots\dots 2p$$

“ \leftarrow ”

$$\frac{x}{\frac{15}{15}} = \frac{y}{\frac{10}{10}} = \frac{z}{\frac{6}{5}} \dots\dots\dots 2p$$

$$\frac{x}{2} = \frac{y}{3} = \frac{z}{5} \dots\dots\dots 2p$$

$$(x, y, z) \text{ d.p. } (2, 3, 5) \dots\dots\dots 2p$$

b)

Demonstrati ca (x, y, z) sunt direct proportionale cu (a, b, c) daca si numai daca (x, y, z) si (d, e, f) sunt invers proportionale, unde $ad=be=cf$3p

(x, y, z) d.p. (a,b,c); (x, y, z) i.p. (d, e, f).....1p

$$ad=be=cf=A \dots\dots\dots 1p$$

$$a = \frac{A}{d}, b = \frac{A}{e}, c = \frac{A}{f} \dots\dots\dots 1p$$

$$\text{Finalizare} \dots\dots\dots 2p$$

Problema 2

$$1. \widehat{AMB} \equiv \widehat{BMC} \equiv \widehat{CMA} = 120^\circ \dots\dots\dots 3p$$

$$2. \widehat{B'MC} \equiv \widehat{A'MC} = 60^\circ \dots\dots\dots 3p$$

$$3. \triangle A'MC \equiv \triangle B'MC \dots\dots\dots 3p$$

$$4. \triangle AMC \equiv \triangle BMC \dots\dots\dots 3p$$

$$5. AC = BC \dots\dots\dots 3p$$

$$6. \text{Analog } AC=AB \dots\dots\dots 3p$$

$$7. \text{Finalizare} \dots\dots\dots 2p$$