

### Varianta 6

**III.**

**13.** a)  $\frac{40}{100} \cdot \text{rest} = 72 \Leftrightarrow \text{rest} = 180 \text{ km. } \frac{3}{4} \cdot \text{lungime} = 180 \Leftrightarrow \text{lungime} = 240 \text{ km.}$

b) primul an:  $\frac{1}{4} \cdot 2800 = 700$  milioane euro; au mai rămas 2100 milioane euro.

al doilea an  $\frac{60}{100} \cdot 2100 = 1260$  milioane euro.

În total s-au încasat  $700 + 1260 = 1960$  milioane euro.

**14.** a)  $A(-3;4)$

b)  $\begin{cases} f(0)=0 \\ f(2)=4 \end{cases} \Leftrightarrow \begin{cases} b=0 \\ 2a+b=4 \end{cases} \Leftrightarrow \begin{cases} b=0 \\ a=2 \end{cases}.$

c)  $A_{COB} = \frac{OB \cdot d(C; OB)}{2} = 6 \Leftrightarrow d(C; OB) = \frac{6\sqrt{5}}{5}.$

**15.** b)  $V = \frac{12^2 \cdot 6}{3} = 288 \text{ cm}^3.$

c)  $\left. \begin{array}{l} MO \parallel SC \\ SC \subset (SEC) \end{array} \right\} \Rightarrow MO \parallel (SEC).$

d) Construim  $ON \perp SC$ ,  $N \in SC$

$$\left. \begin{array}{l} AO \perp SO \\ AO \perp OC \end{array} \right\} \Rightarrow ON \perp SC \quad \left. \begin{array}{l} AO \perp (SEC) \\ ON, SC \subset (SEC) \end{array} \right\} \stackrel{T.3p.}{\Rightarrow} AN \perp SC \Rightarrow m((SEC), (SAC)) = m(O \hat{N} A)$$

$$\Rightarrow m(O \hat{N} A) = 60^\circ.$$