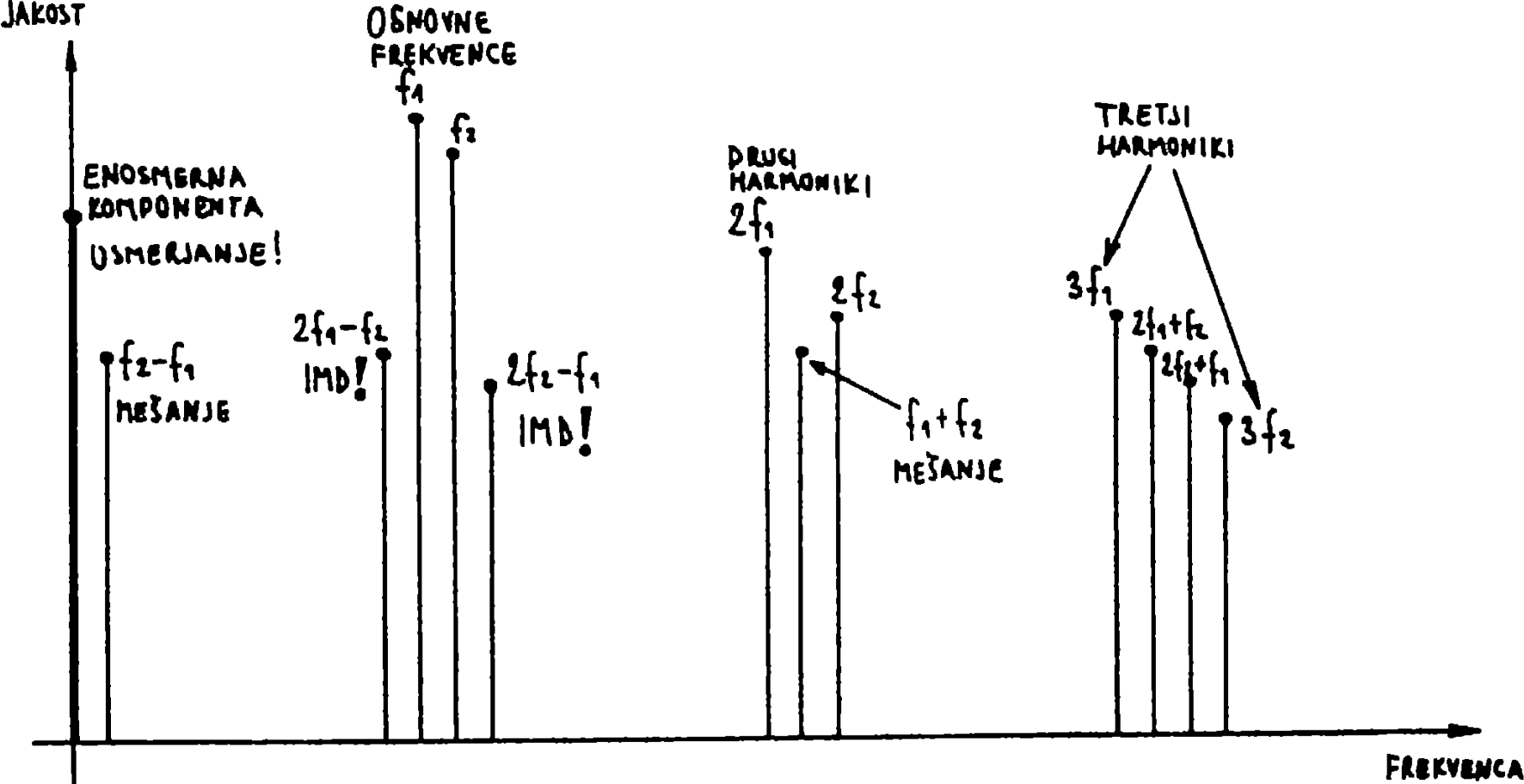
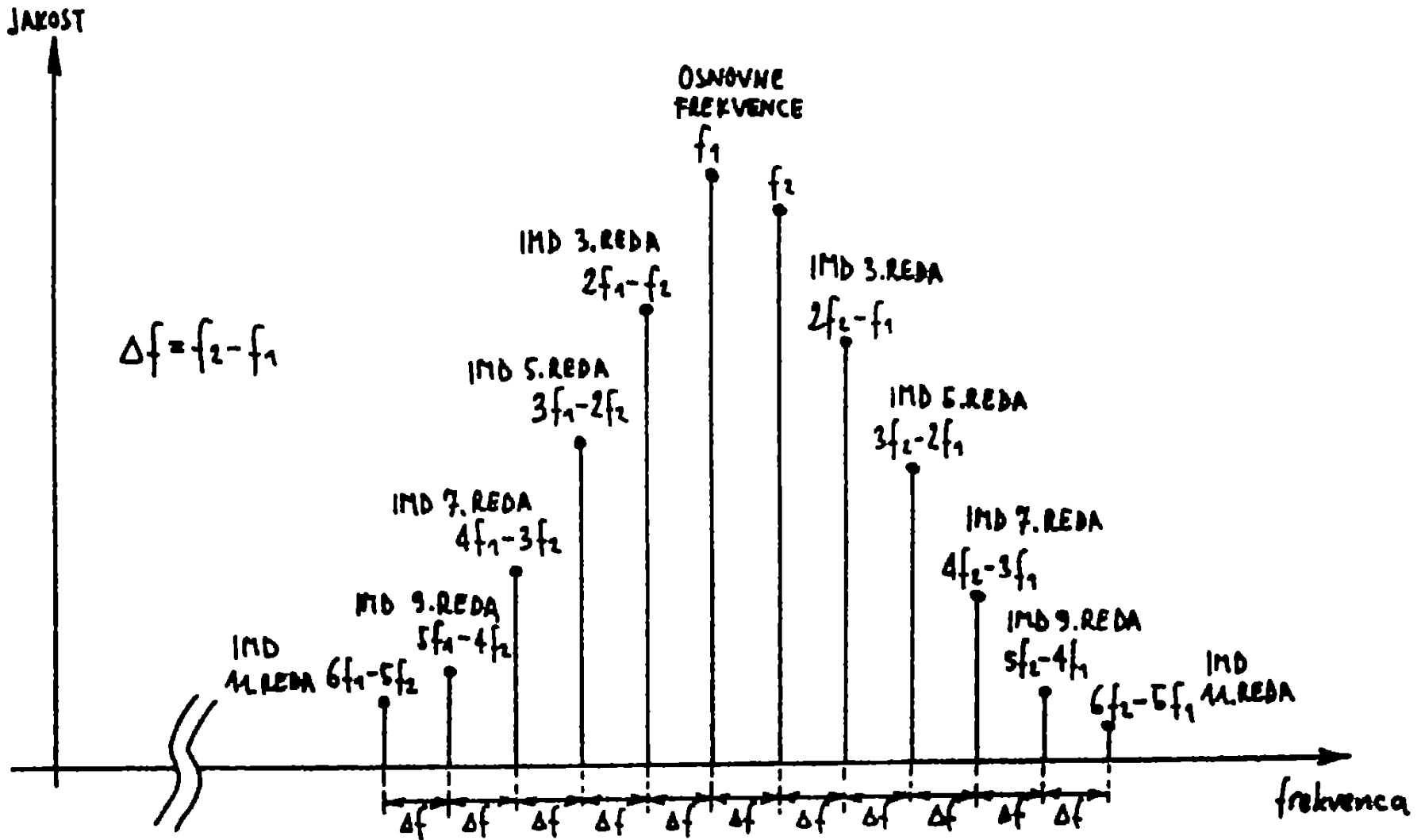
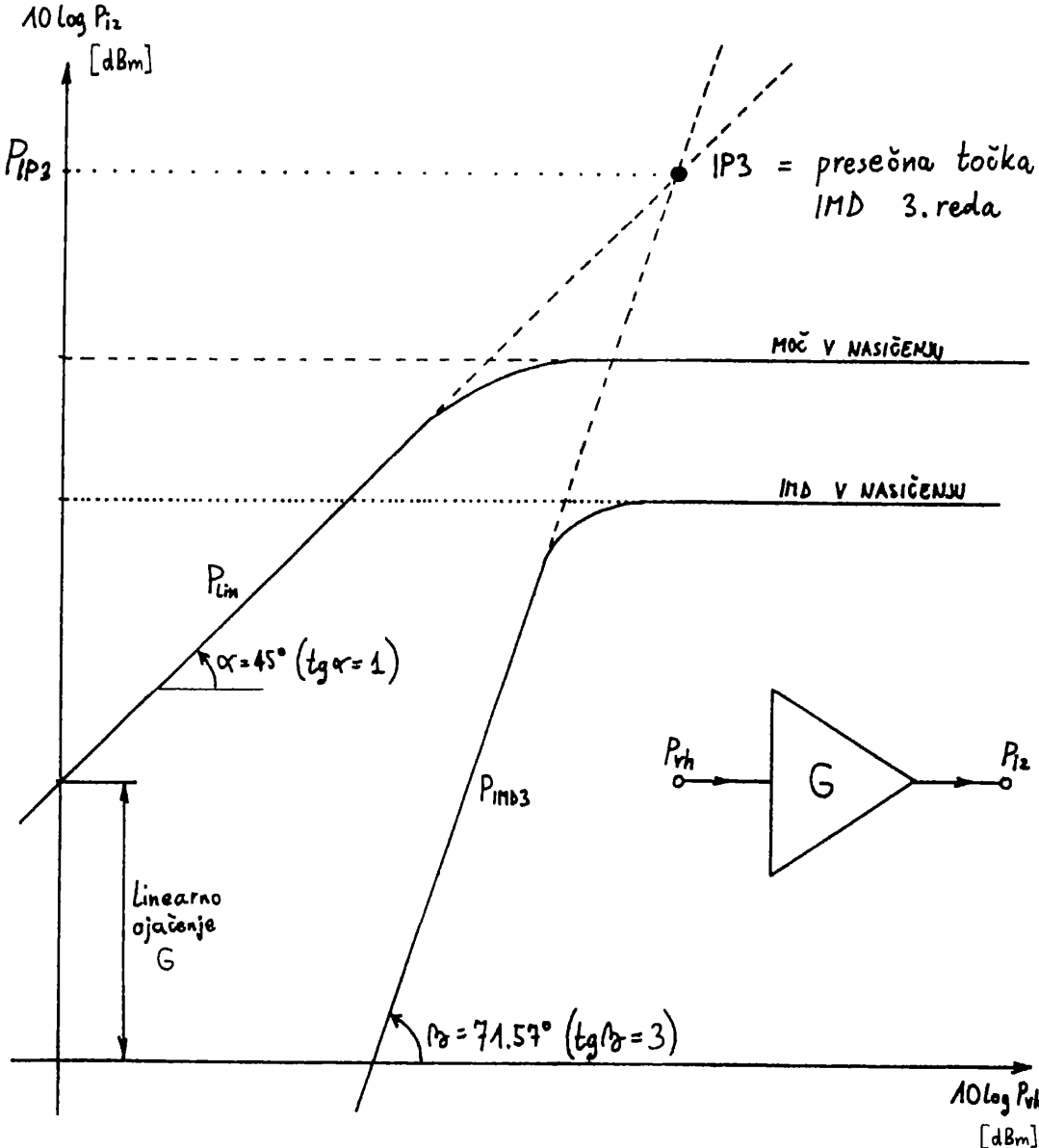


$$\mu_{izH} = C_0 + C_1 \cdot \mu_{vH} + C_2 \cdot \mu_{vH}^2 + C_3 \cdot \mu_{vH}^3 + C_4 \cdot \mu_{vH}^4 + \dots$$

ČLEN	PRISPEVKI PRI KRMILJENJU Z ENO FREKVENCO f	PRISPEVKI PRI KRMILJENJU Z DVEMA FREKVENCAMA f_1 in f_2
LINEARNI ČLEN $C_1 \cdot u_{VH}$	f	$f_1 ; f_2$
KVADRATNI ČLEN $C_2 \cdot u_{VH}^2$	0 (= enosmerna!) $2f$	0 ; $2f_1 ; 2f_2 ;$ $f_1 + f_2 ; f_1 - f_2$
KUBNI ČLEN $C_3 \cdot u_{VH}^3$	f $3f$	$f_1 ; f_2 ; 3f_1 ; 3f_2 ;$ $2f_1 + f_2 ; \boxed{2f_1 - f_2} ;$ $f_1 + 2f_2 ; \boxed{f_1 - 2f_2}$
$C_4 \cdot u_{VH}^4$	0 (= enosmerna) $2f$ $4f$	0 ; $2f_1 ; 2f_2 ; 4f_1 ; 4f_2 ;$ $3f_1 + f_2 ; 3f_1 - f_2 ; 2f_1 + 2f_2 ; 2f_1 - 2f_2 ;$ $f_1 + 3f_2 ; f_1 - 3f_2 ; f_1 + f_2 ; f_1 - f_2$
$C_5 \cdot u_{VH}^5$	f $3f$ $5f$	$f_1 ; f_2 ; 3f_1 ; 3f_2 ; 5f_1 ; 5f_2 ;$; $\boxed{3f_1 - 2f_2} ; \boxed{2f_1 - 3f_2} ;$
⋮	⋮	⋮







$$P_{IMD3} = \frac{P_{lin}^3}{P_{IP3}^2} ; P_{INDn} = \frac{P_{lin}^n}{P_{IPn}^{n-1}} \dots \text{v linearnih enotah [W]}$$

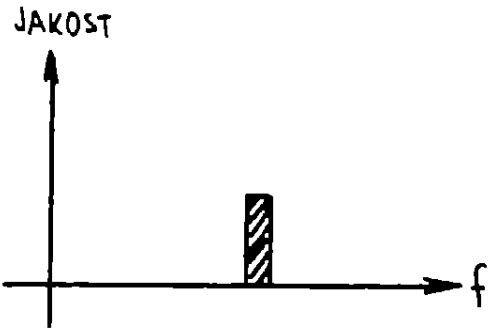
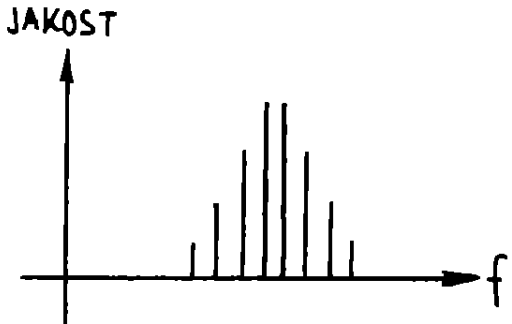
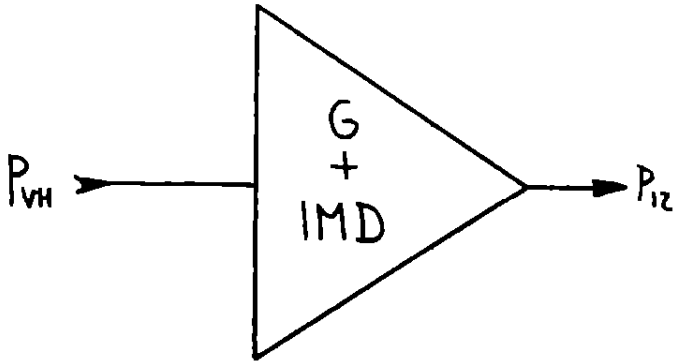
$$P_{IMD3} = 3 \cdot P_{lin} - 2 \cdot P_{IP3} ; P_{INDn} = n \cdot P_{lin} - (n-1) \cdot P_{IPn} \dots \text{v dBW, dBm}$$

$$P_1(f_1), P_2(f_2) \longrightarrow P(2f_1 - f_2) = \frac{P_1^2 \cdot P_2}{P_{IP3}^2}$$

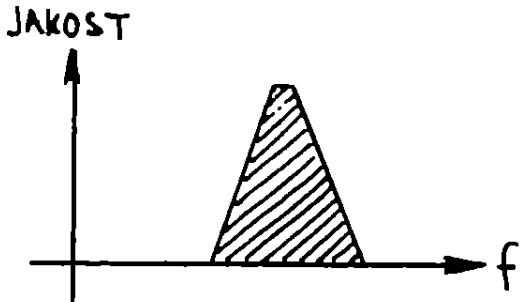
$$P_1(f_1), P_2(f_2), P_3(f_3) \longrightarrow P(f_1 - f_2 + f_3) = \frac{P_1 \cdot P_2 \cdot P_3}{P_{IP3}^2}$$

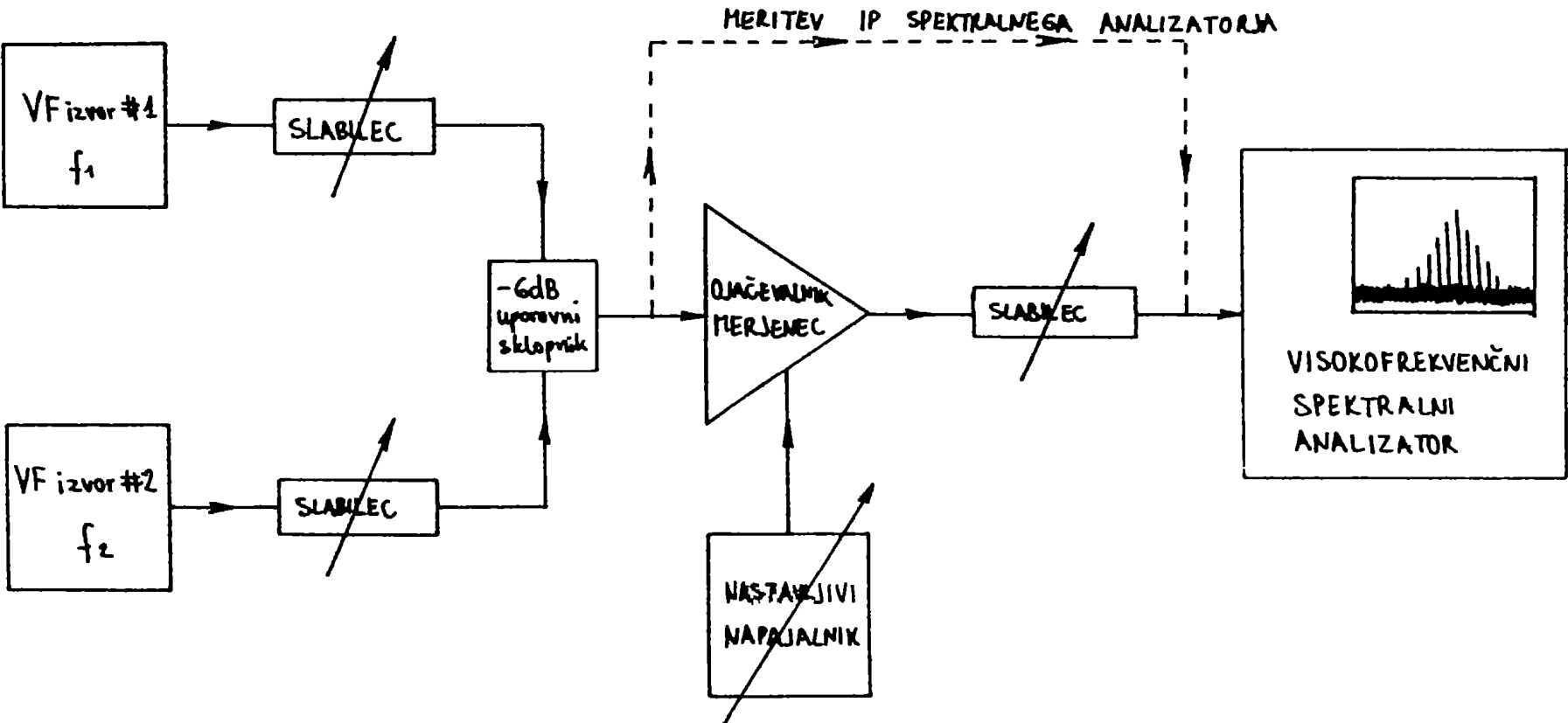


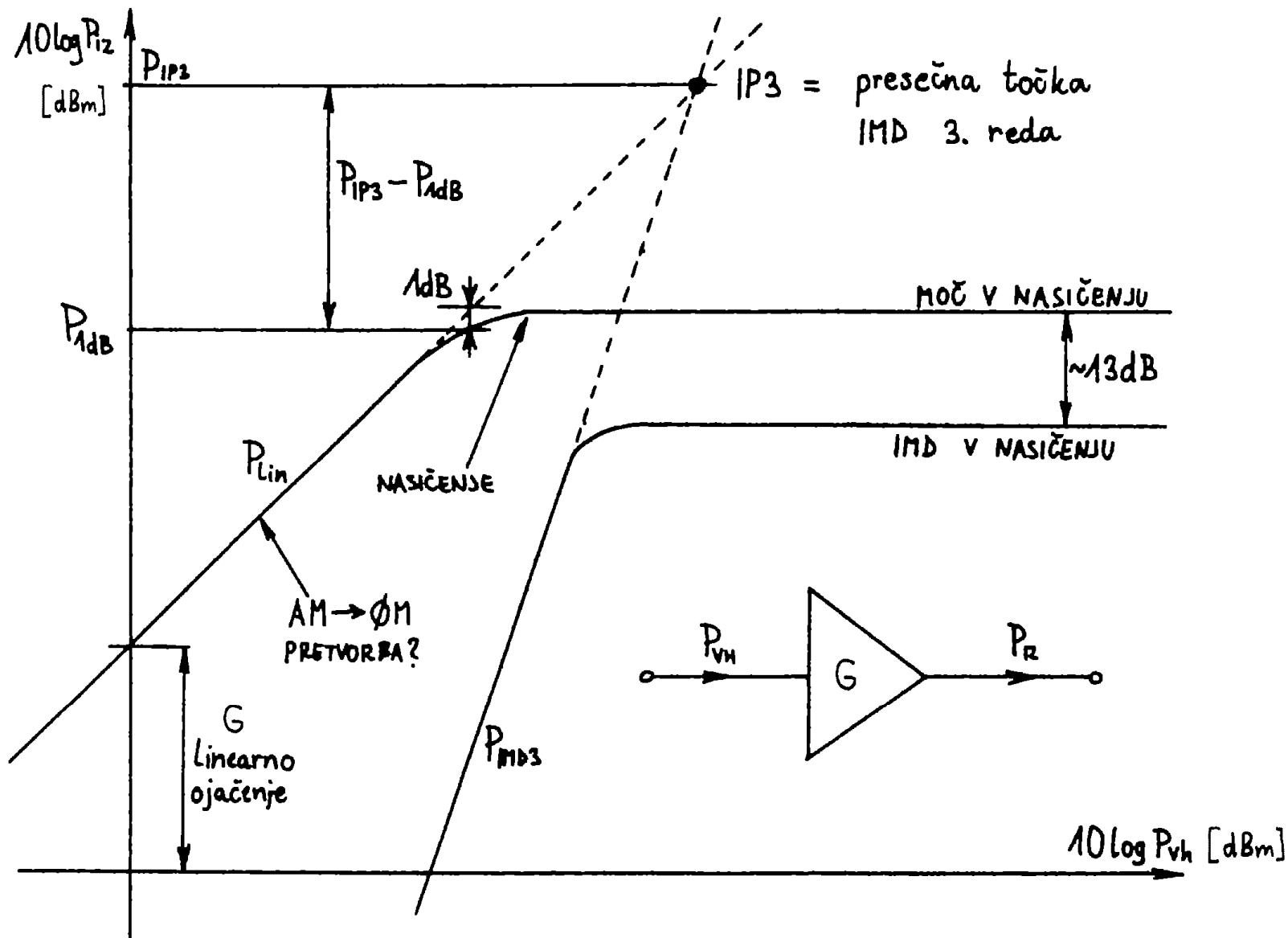
DVOTONSKA MERITEV



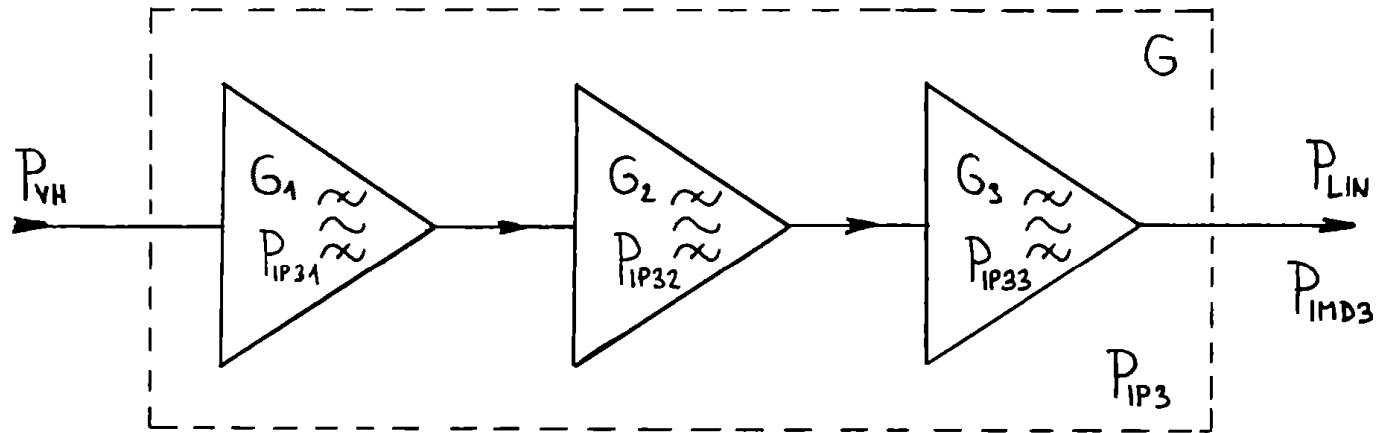
ZVEZNI SPEKTER







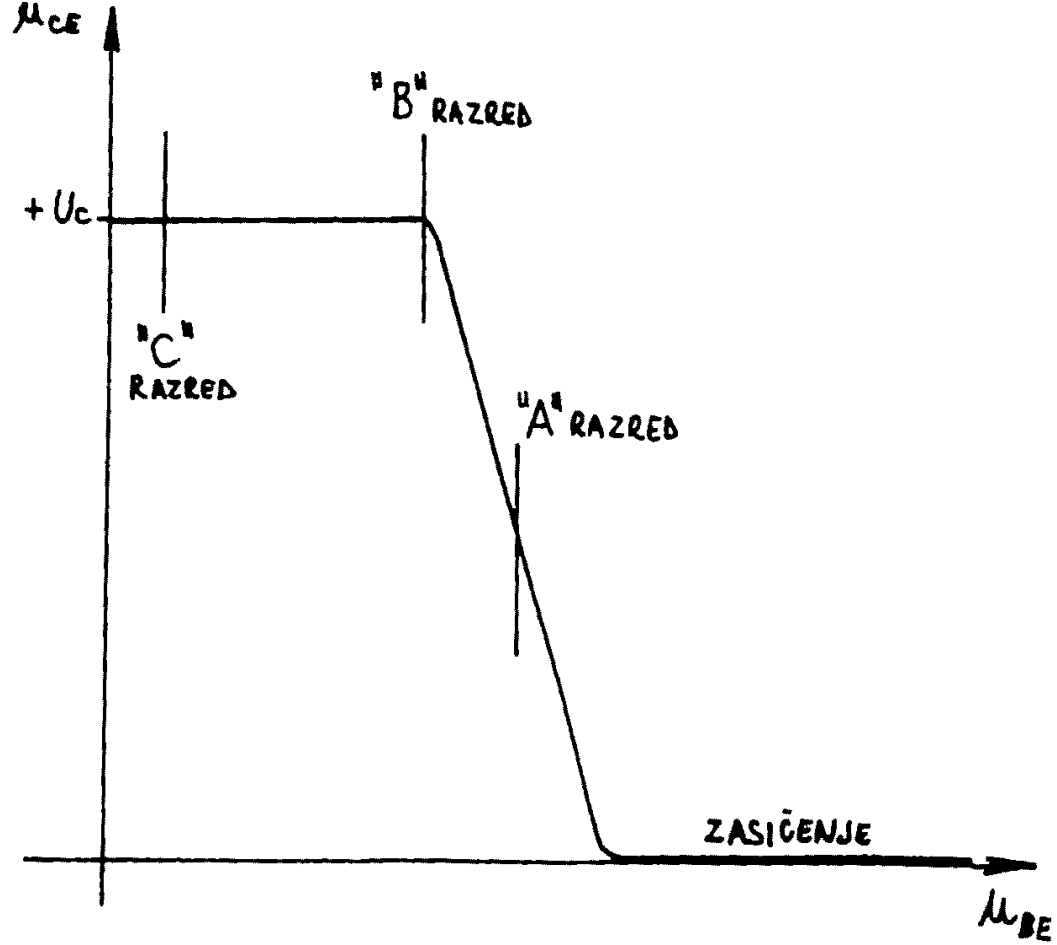
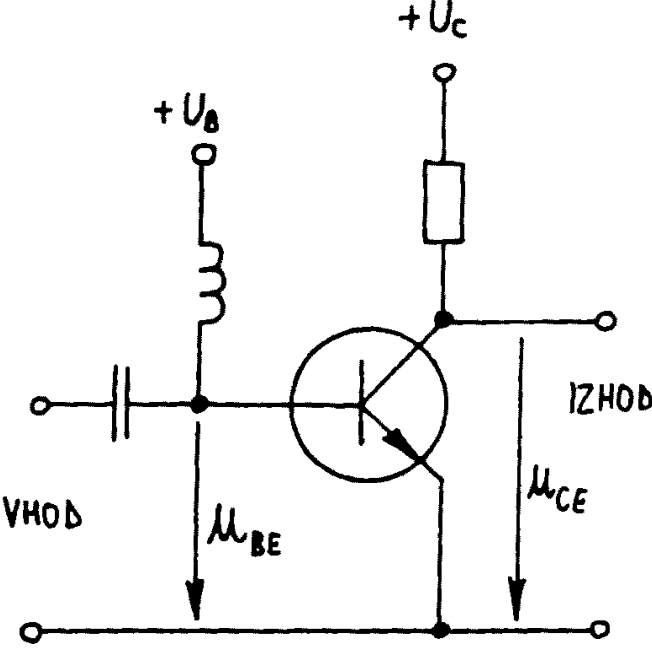
<p>Ojačevalniki s kvadratičnim odzivom</p>	$P_{IP3} - P_{1dB} \approx 20dB$	<p>Trioda Si - JFET Si - MOSFET GaAs FET Ojačevalniki s povratno vezavo</p>
<p>Ojačevalniki z odzivom višjega reda</p>	$P_{IP3} - P_{1dB} \approx 10dB$	<p>Pentoda Klistron TWT Si bipolarni tranzistor Večstopenjski ojačevalniki</p>

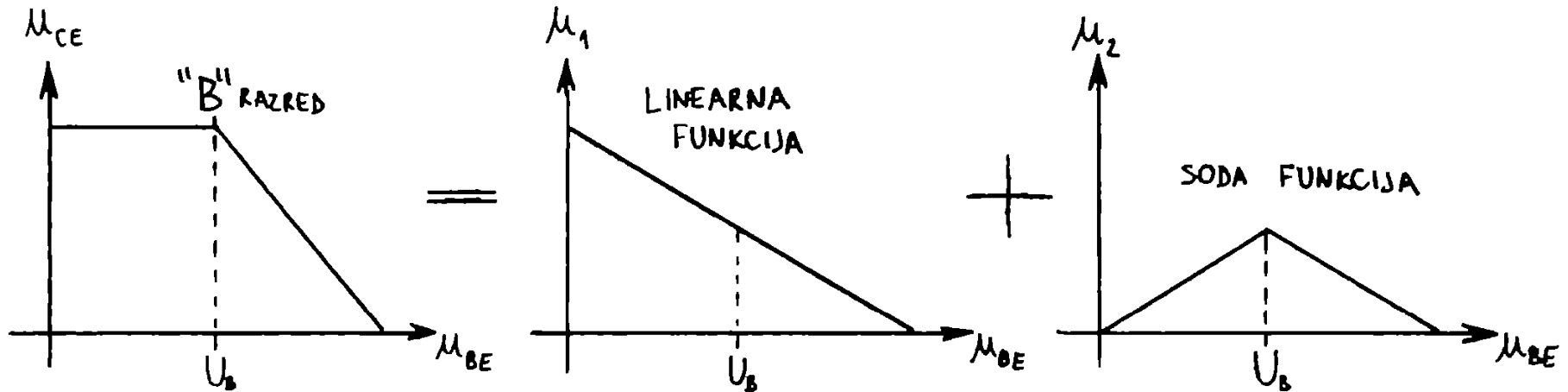


$$G = G_1 \cdot G_2 \cdot G_3$$

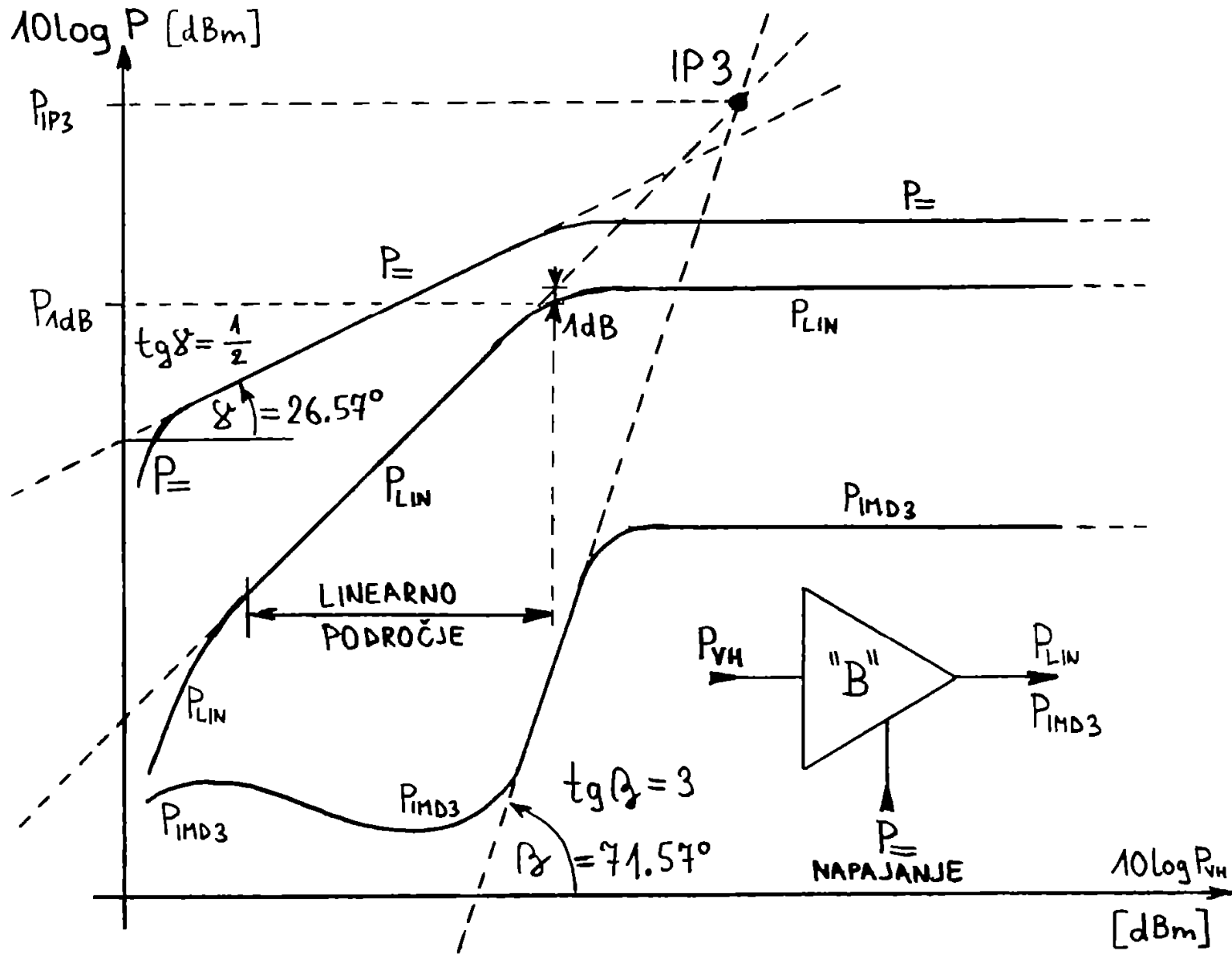
$$\sqrt{P_{IMD3}} = \sqrt{P_{IMD33}} + \sqrt{G_3 \cdot P_{IMD32}} + \sqrt{G_2 \cdot G_3 \cdot P_{IMD31}}$$

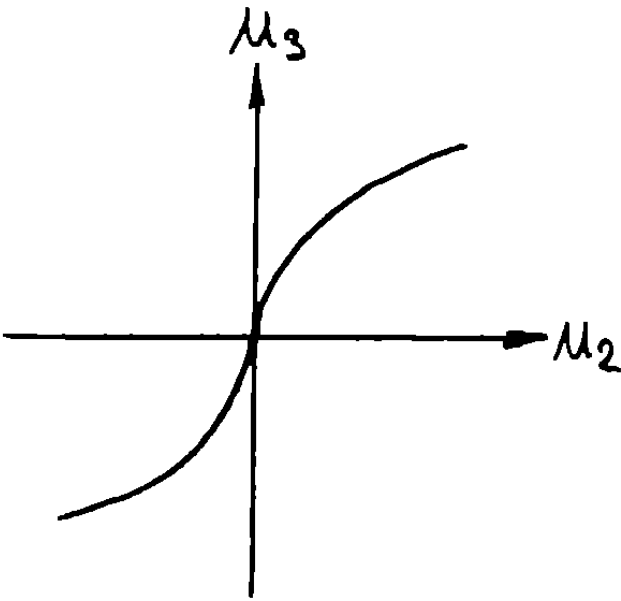
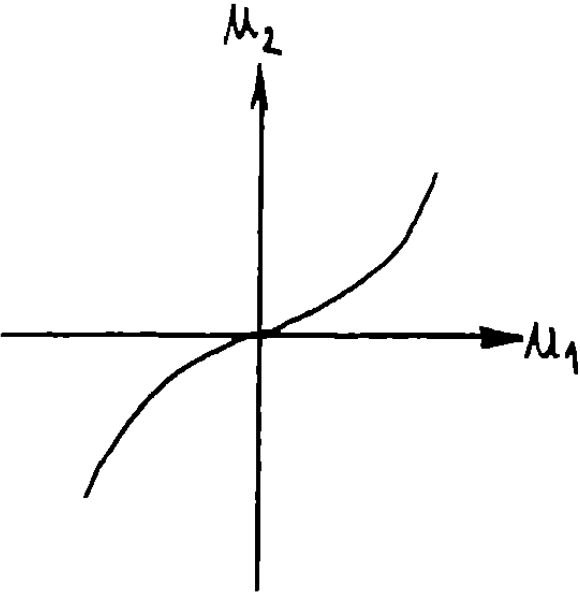
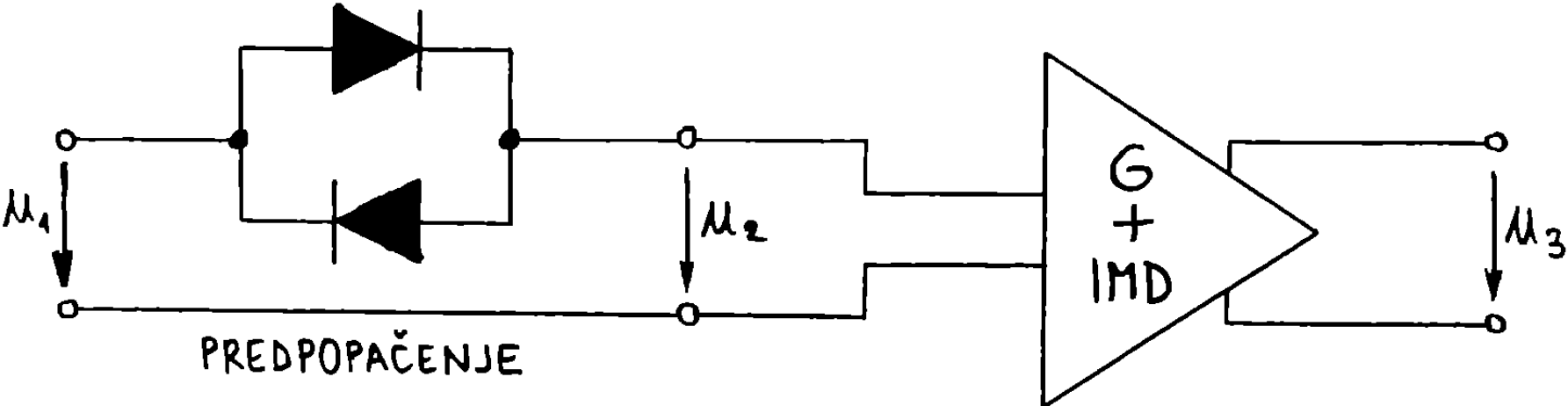
$$P_{IP3} = \frac{1}{\frac{1}{P_{IP33}} + \frac{1}{P_{IP32} \cdot G_3} + \frac{1}{P_{IP31} \cdot G_2 \cdot G_3}}$$

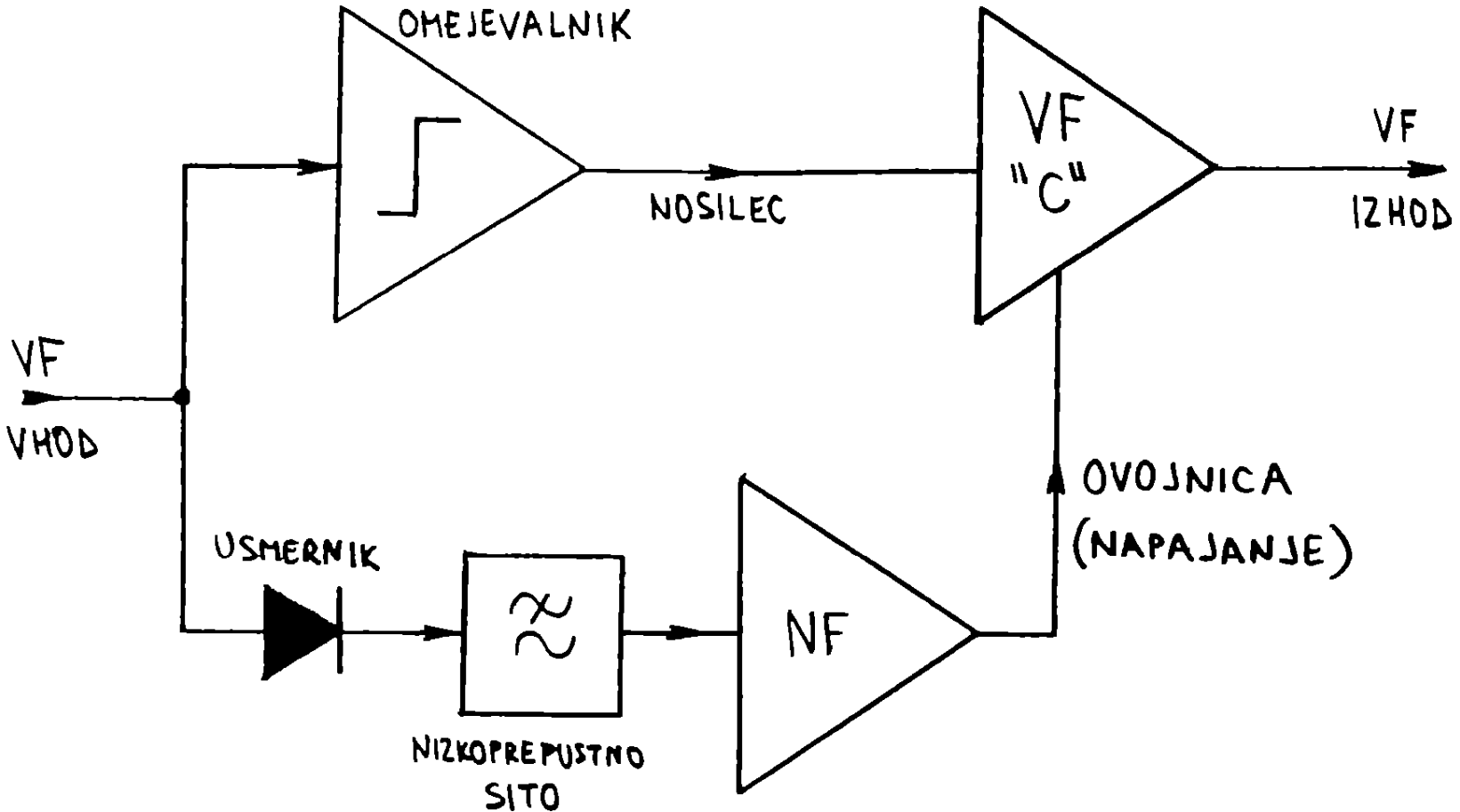


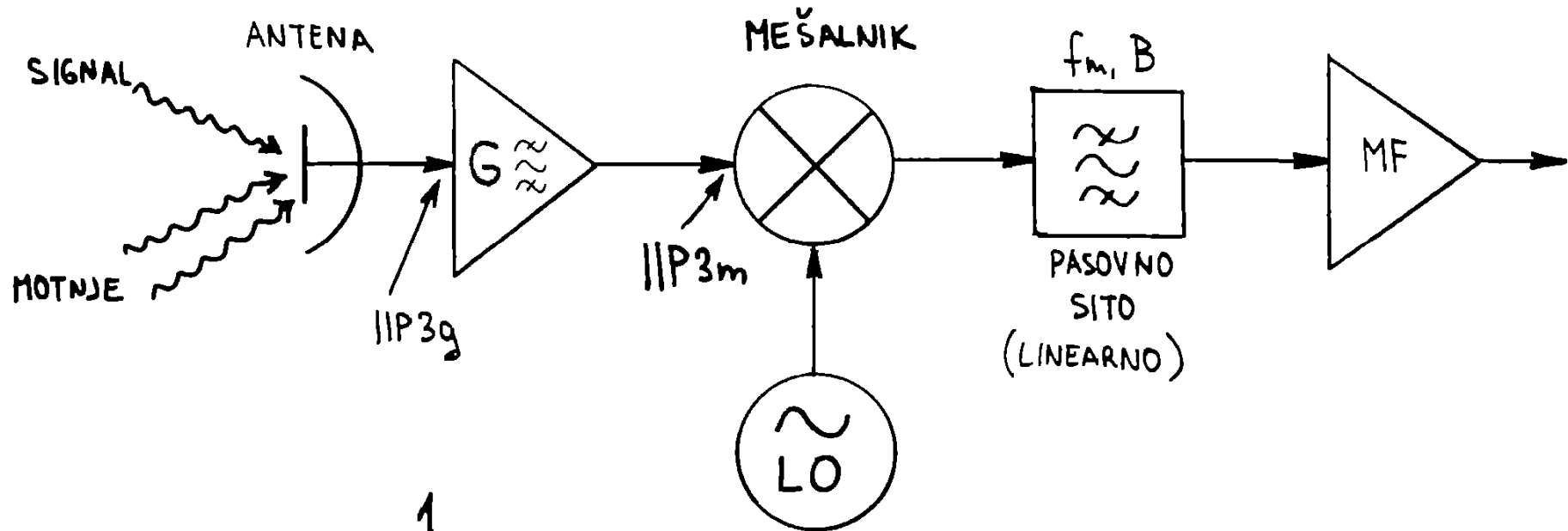


$$\mu_{CE} = C_0 + C_1(\mu_{BE} - U_B) + C_2(\mu_{BE} - U_B)^2 + C_4(\mu_{BE} - U_B)^4 + \dots$$









$$P_{IIP3} = \frac{1}{\frac{1}{P_{IIP3g}} + \frac{G}{P_{IIP3m}}}$$