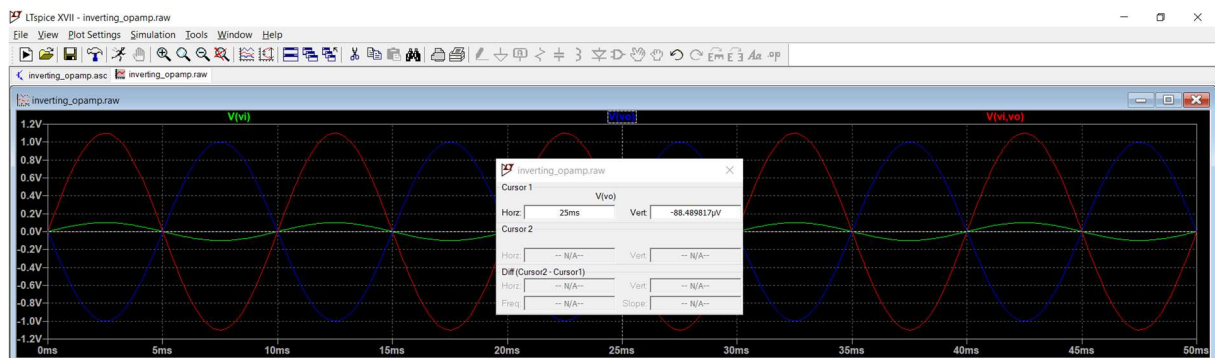
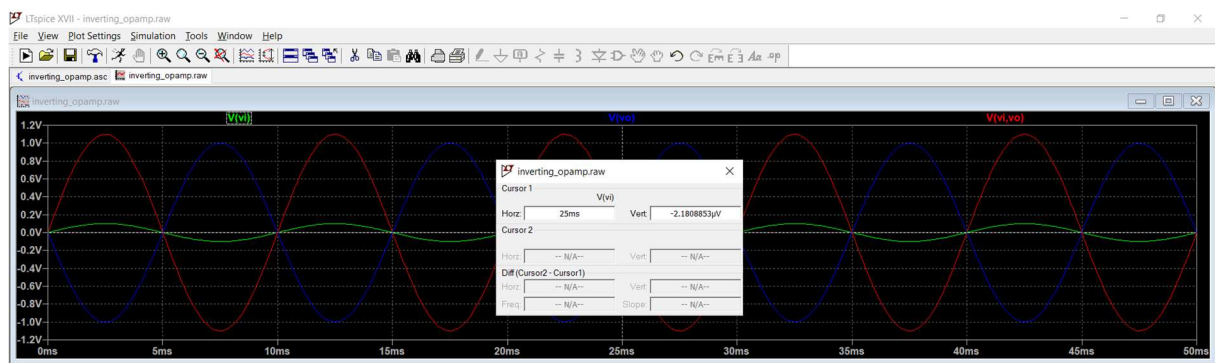
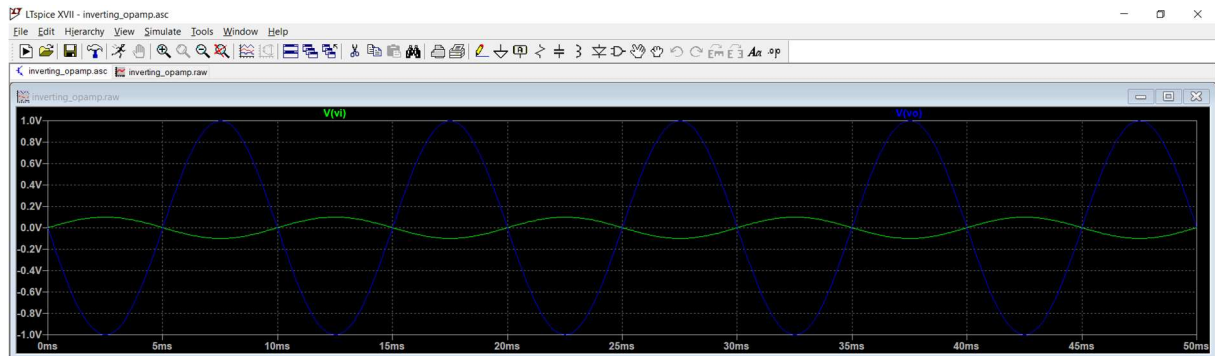


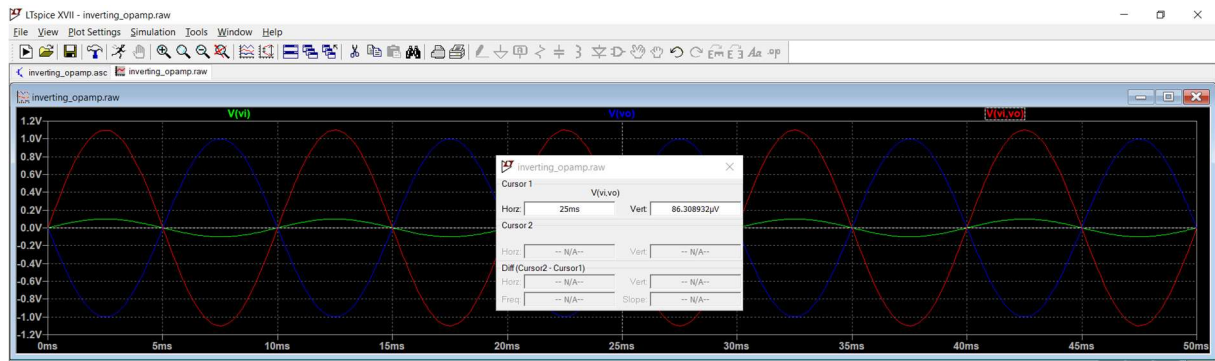
Laboratorul 5

Margaritescu Vlad - 322 AB

3.1 Amplificatorul inversor realizat cu amplificator operational

1.



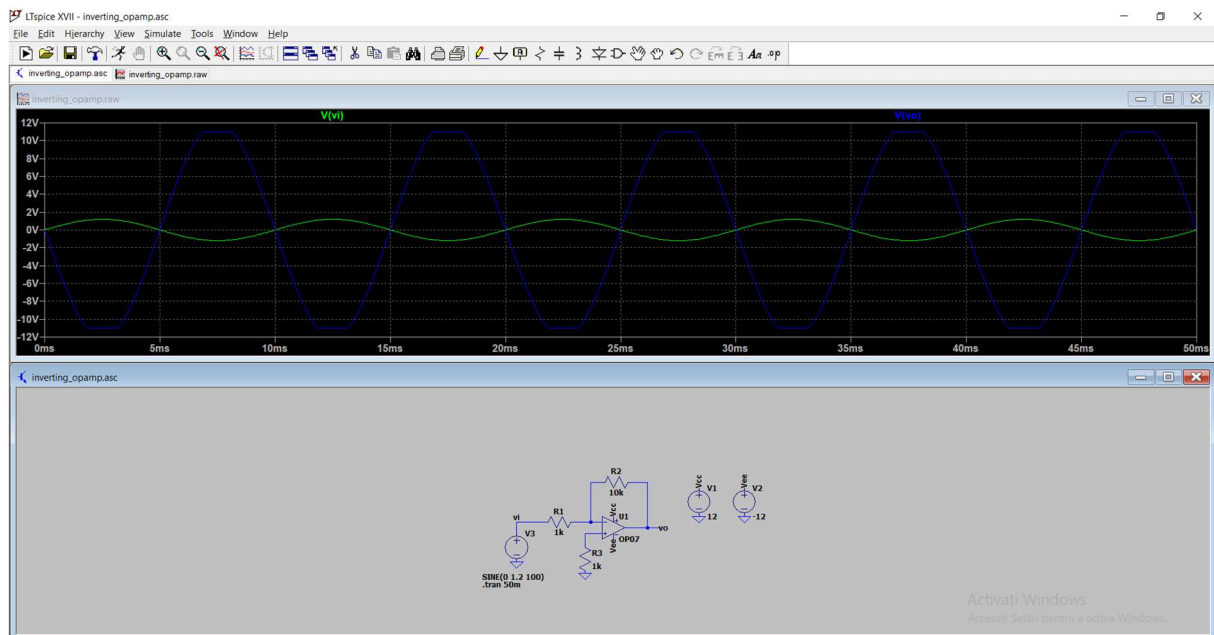
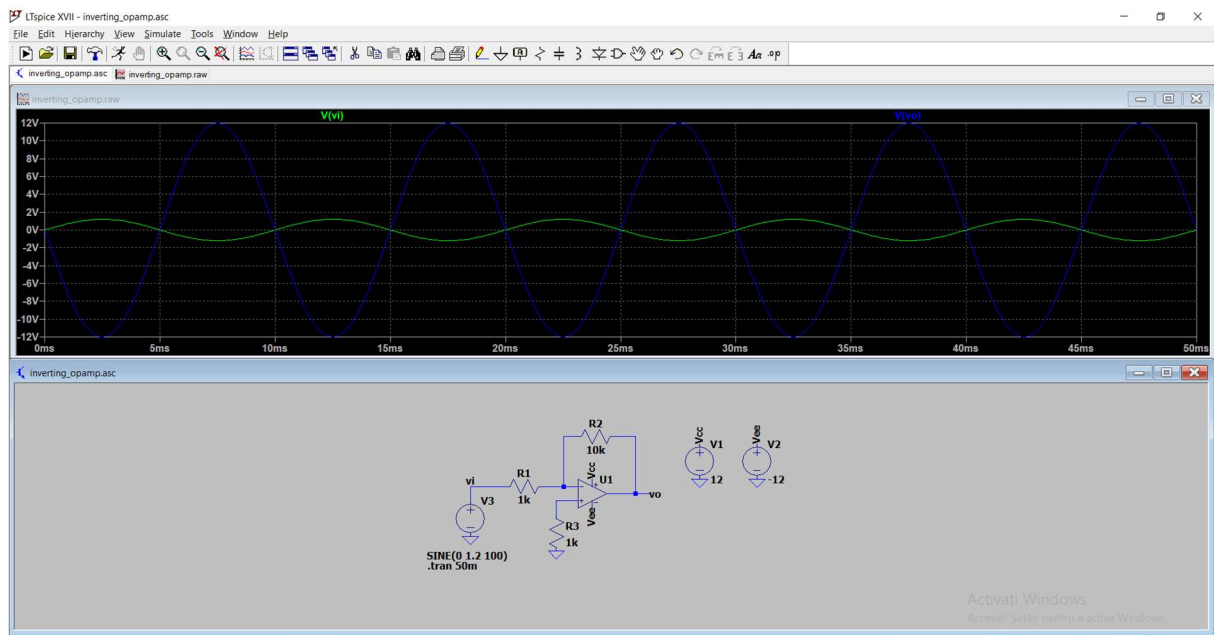


$$V_i = -2.18088853 \mu\text{V}$$

$$V_0 = -88.489817 \mu\text{V}$$

$$A = V_0/V_i = -88.489817 / -2.18088853 = 40.575$$

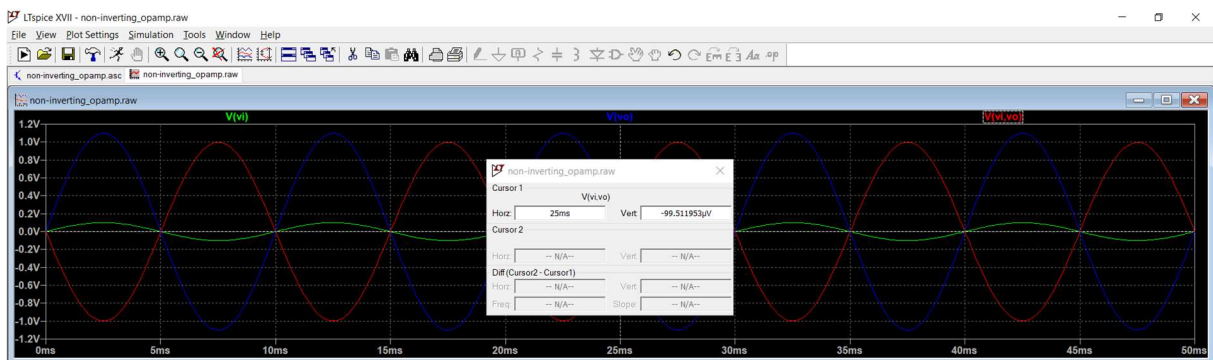
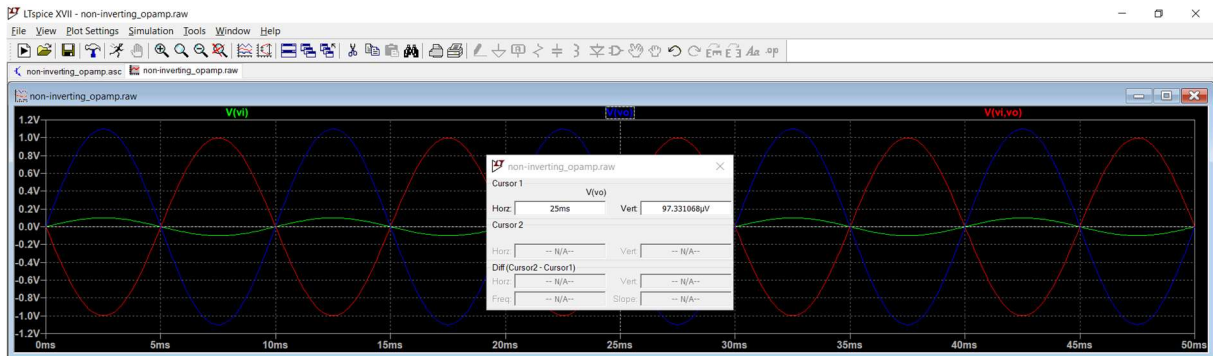
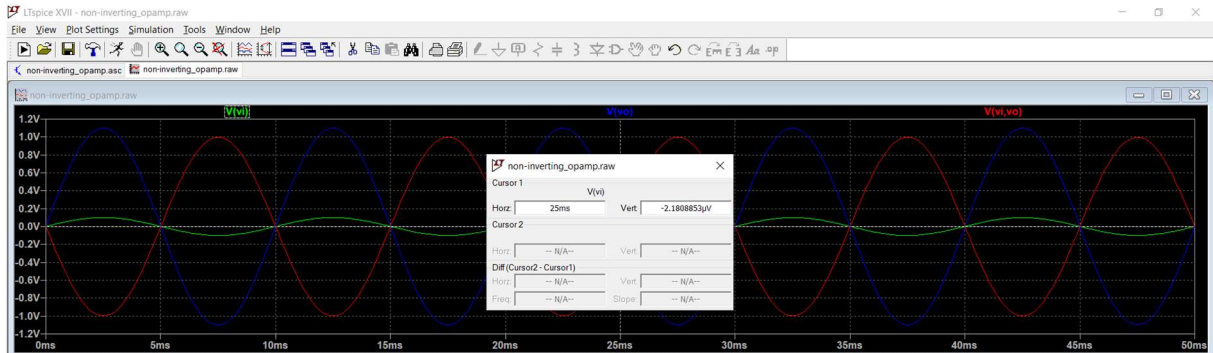
2.



Atunci cand conectam amplificatorul operational OP07, iesirea nu mai este perfect sinusoidala si nu ajunge la capetele de 12 V, respectiv -12V.

3.2 Amplificatorul neinvertor realizat cu amplificator operational

1.

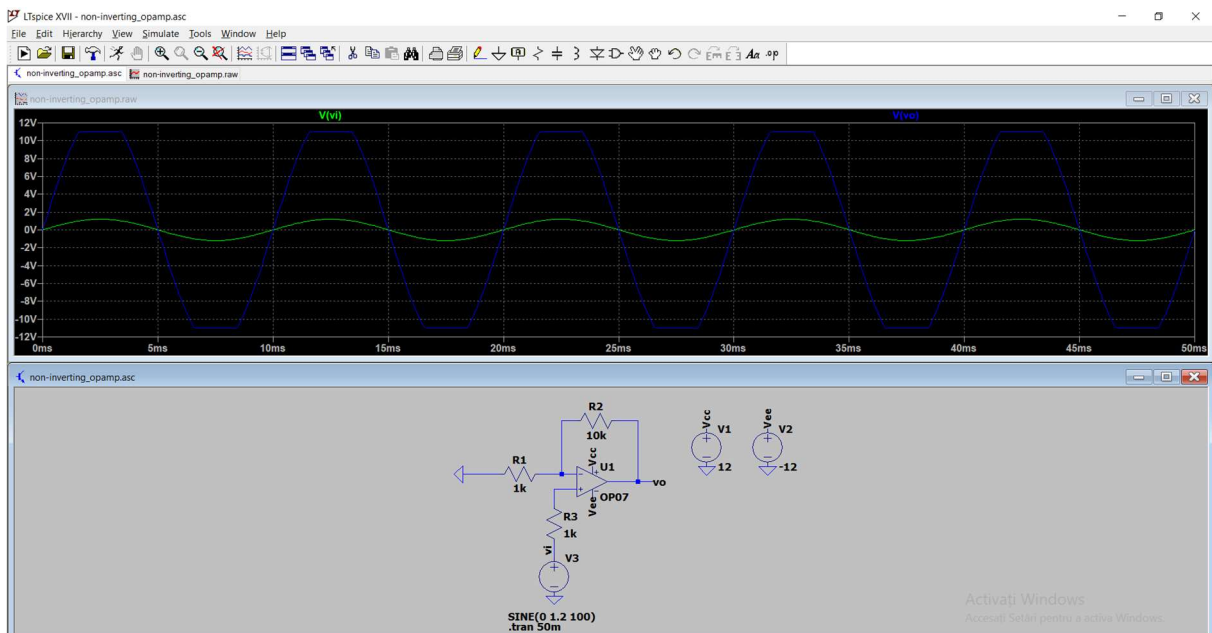
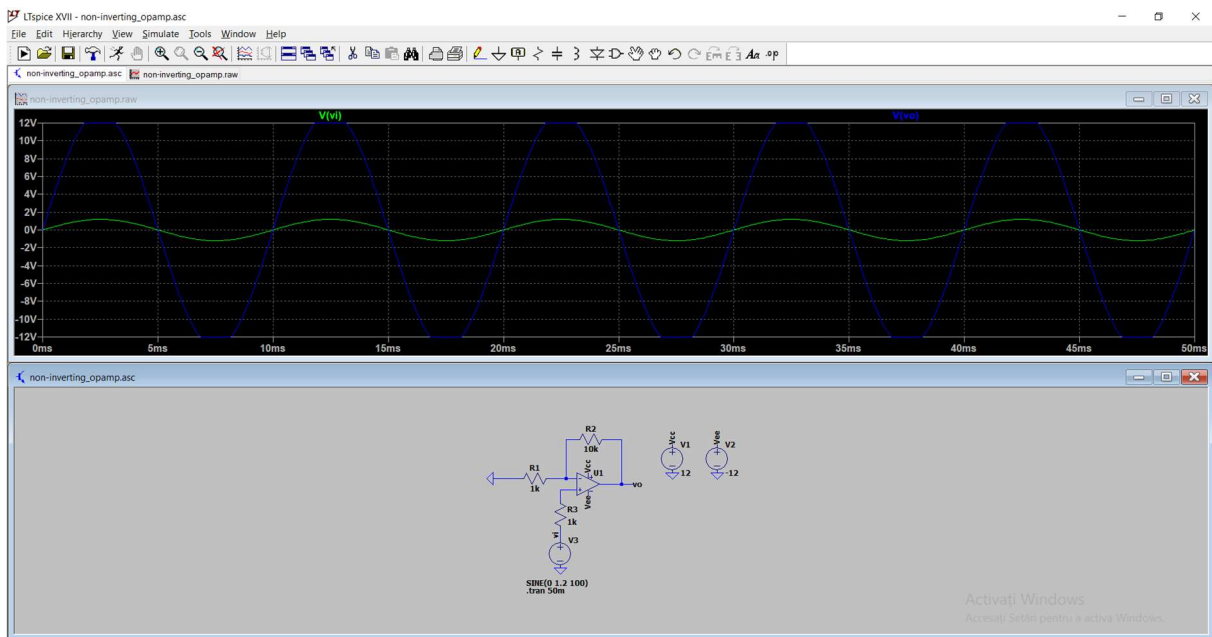


$$V_i = -2.18088853 \mu\text{V}$$

$$V_0 = 97.331068 \mu\text{V}$$

$$A = V_0/V_i = 97.331068 / -2.18088853 = -44.629$$

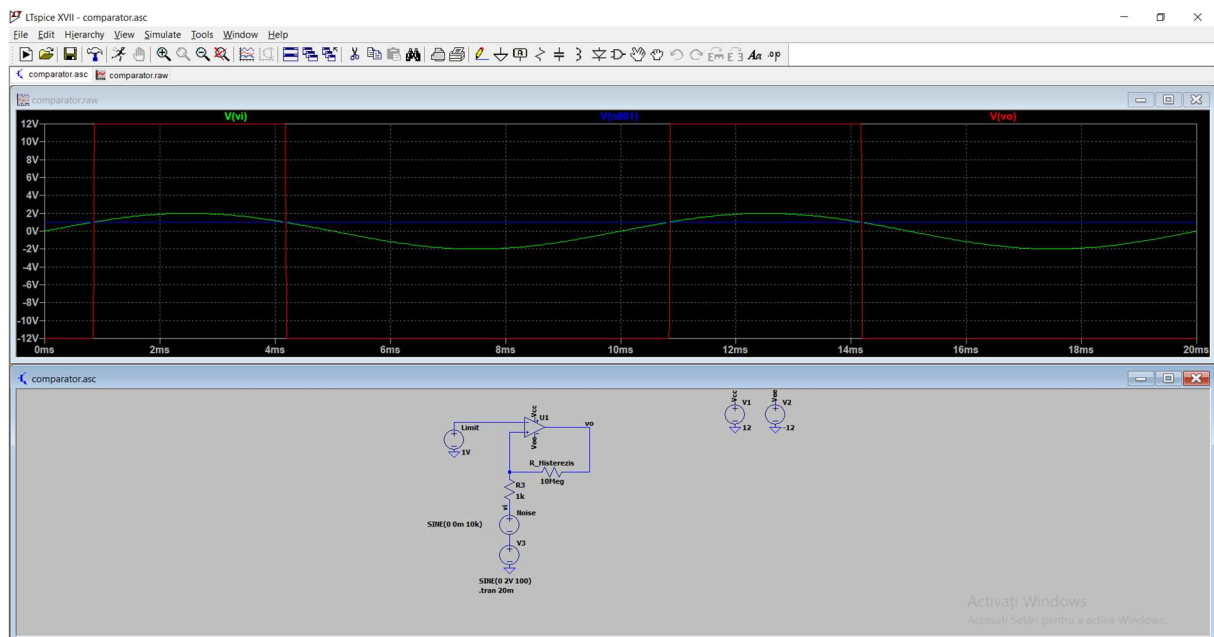
2.



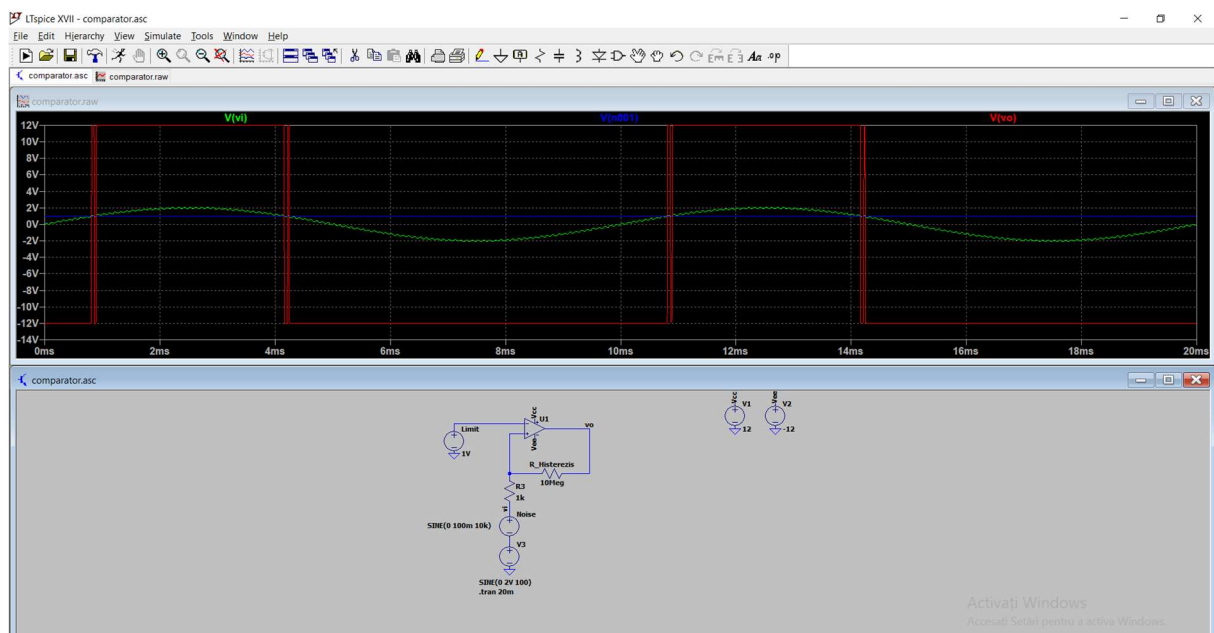
Si in cazul montajului inversor, la amplificatorul operational OP07, se poate vedea cum iesirea nu mai este perfect sinusoidala si nu ajunge la capetele de 12 V, respectiv -12V.

3.3 Comparatorul realizat cu amplificator operational

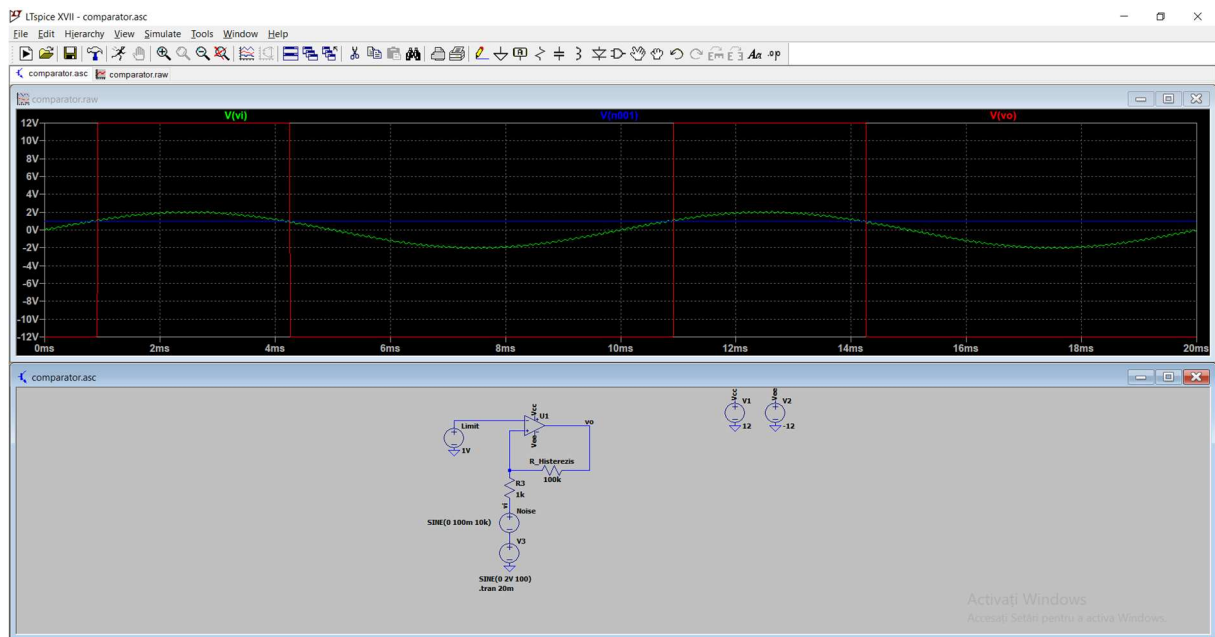
1.



2.

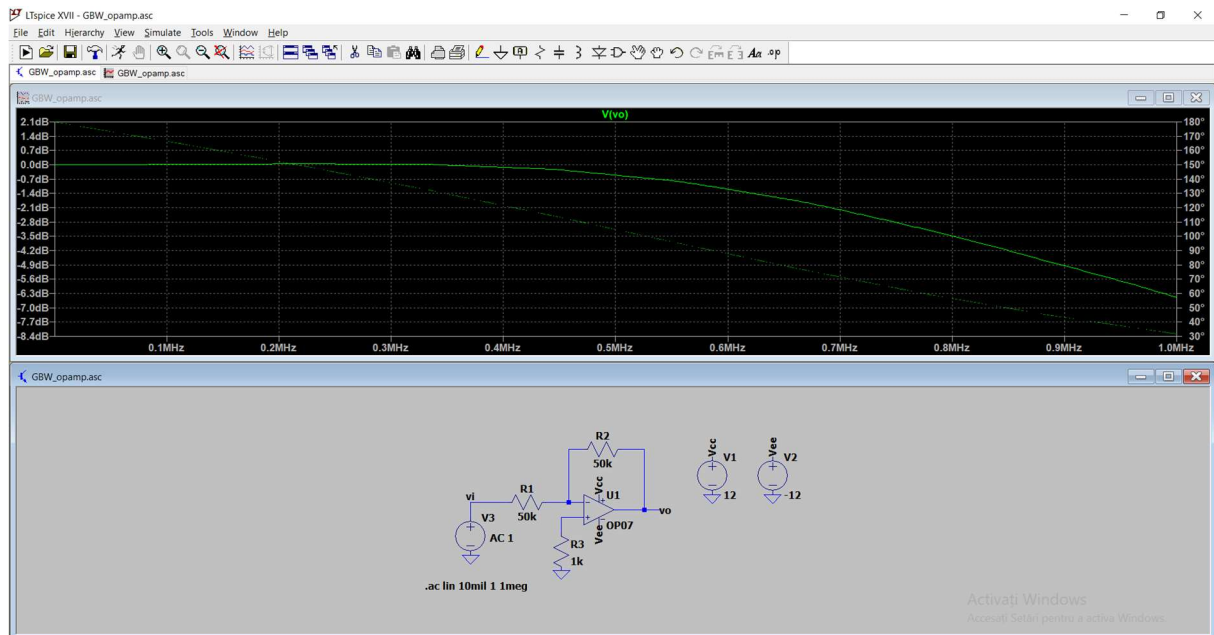


3.

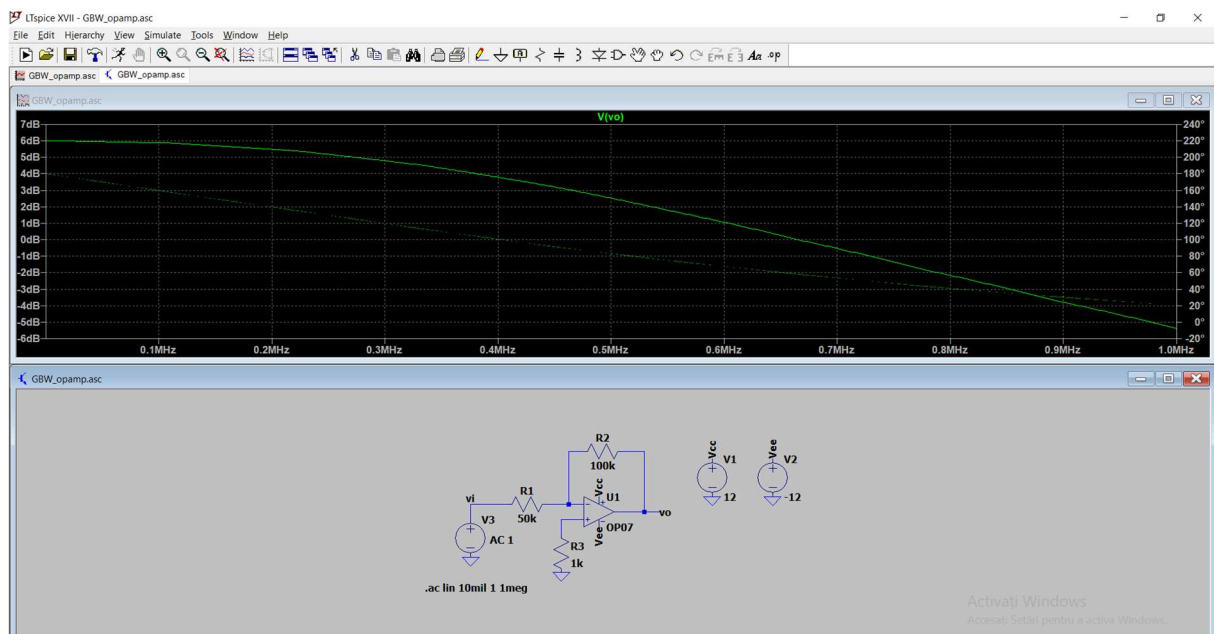


3.4 Studiarea caracteristicii Gain Bandwidth Product (GBP/GBW) a amplificatoarelor

1.



2.



3.

