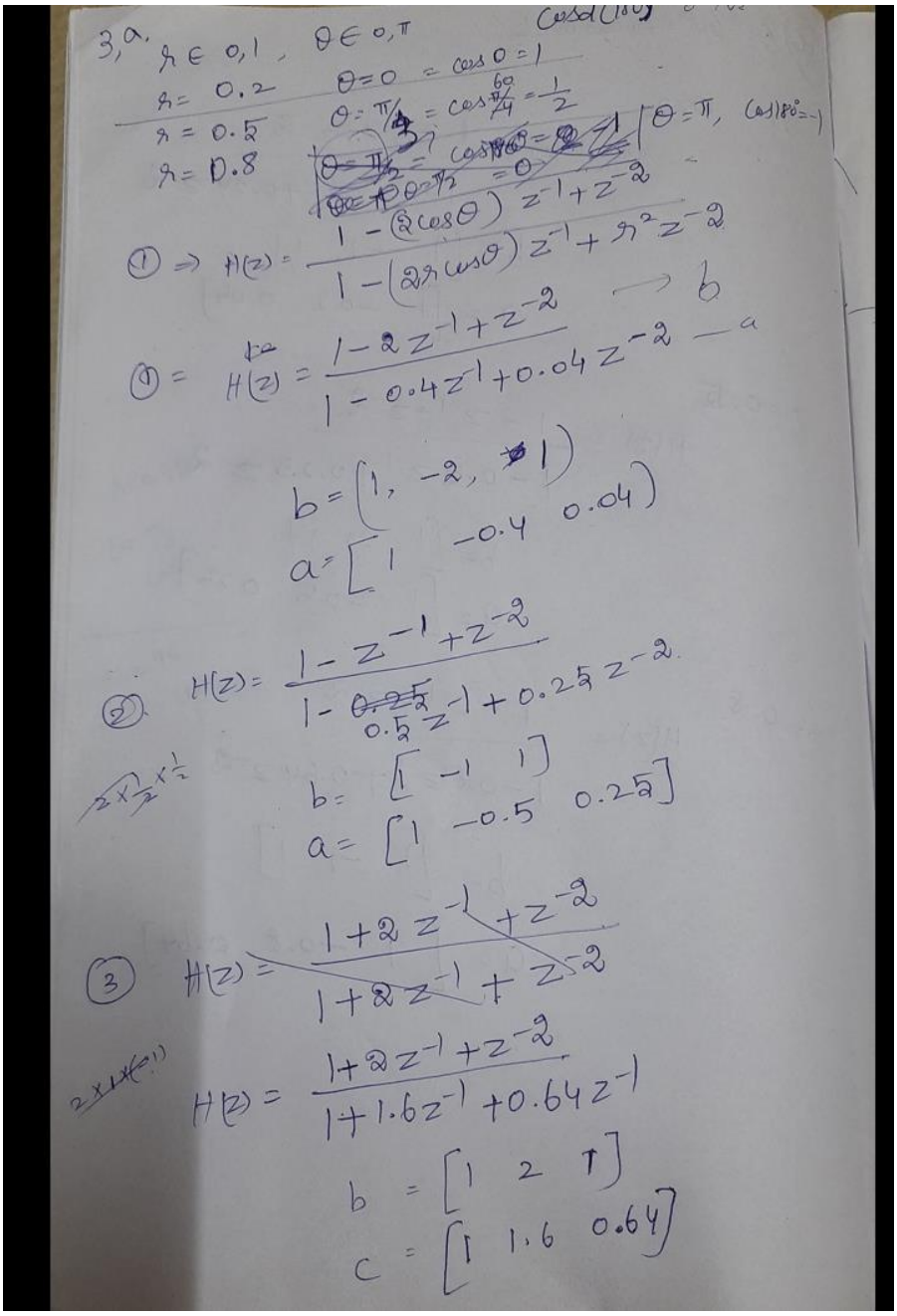
3, a

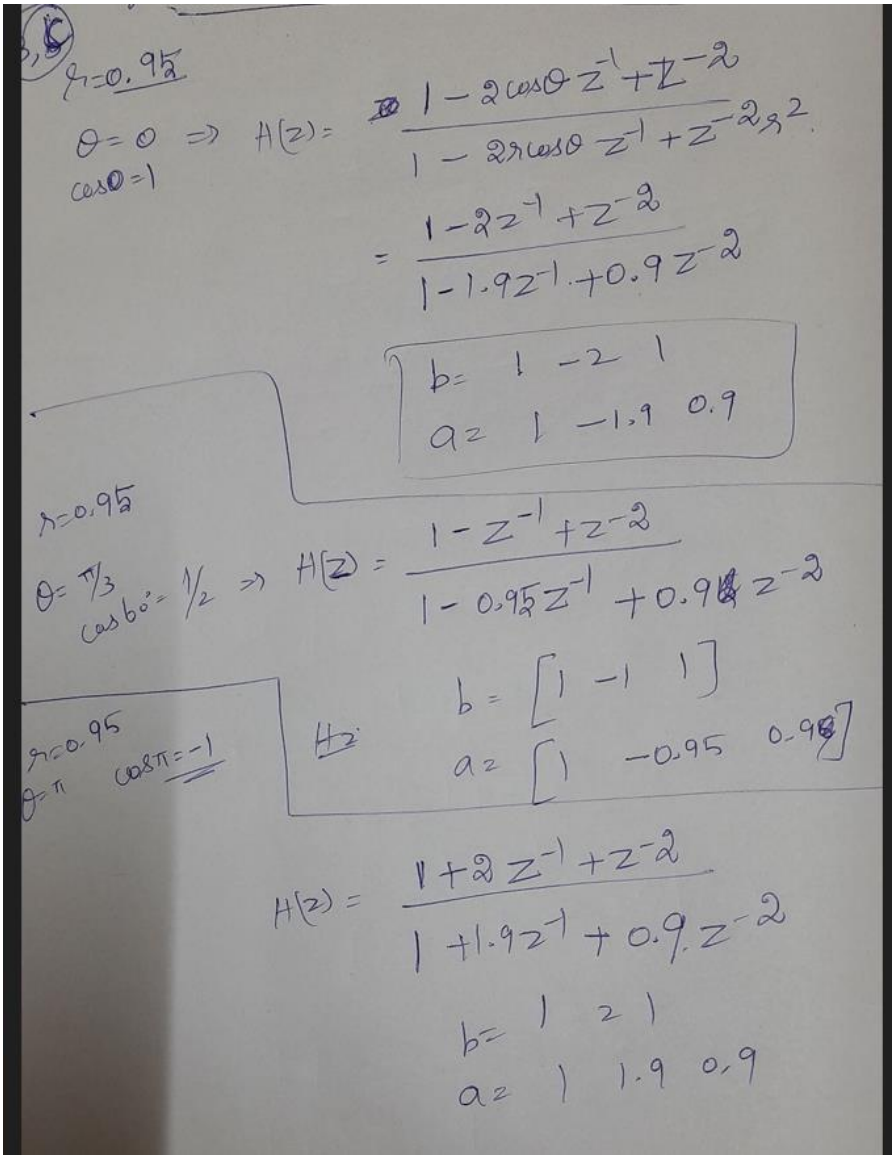
'b' and 'a' are coefficients for different combinations or r and angle is given:



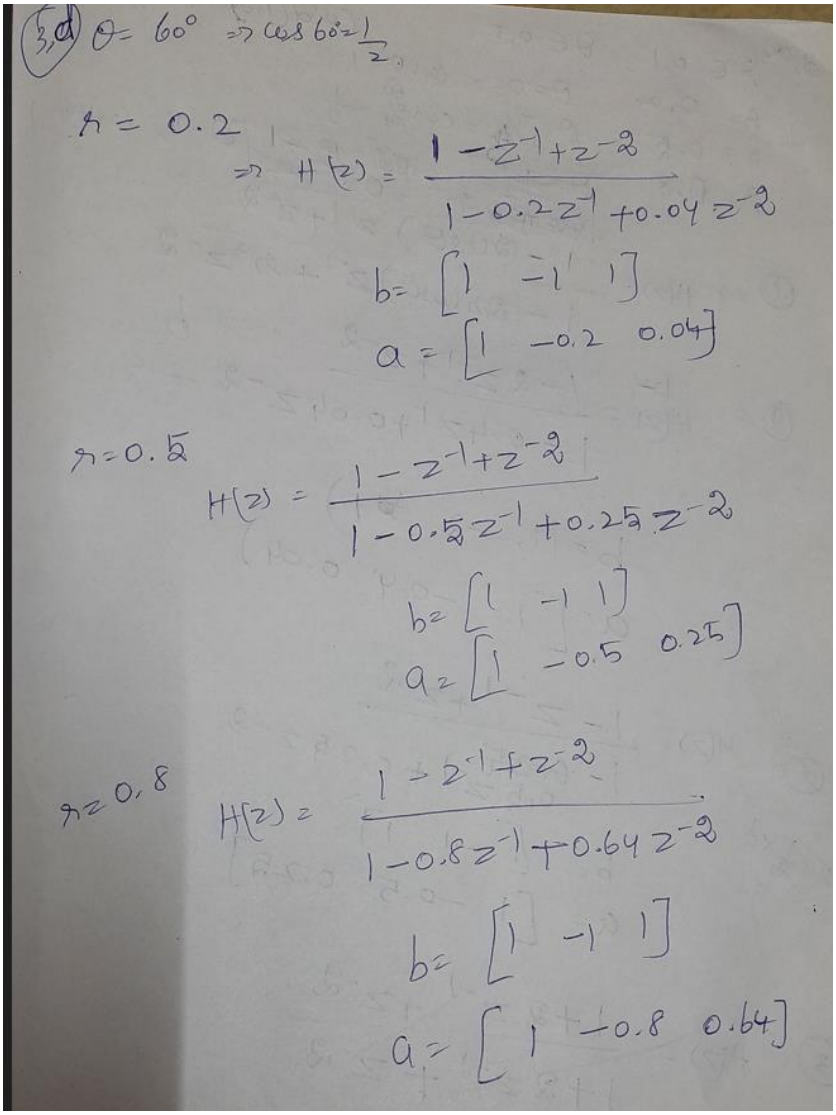
3,b

Yes. For this the ROC should contain the unit circle and it should be outside of the outermost pole.

3,c. calculation of b and a coefficients :



3,d. calculation of b and a coefficients :



3,e .

Magnitude response of any system depends upon the location of poles and zeros.