For the **amplifier** in the figure, for K(s)

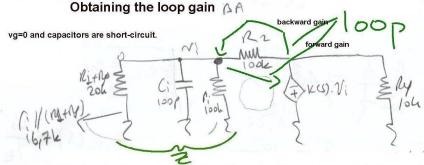
Ko=1000, ω_2 =10 ω_1 and ω_1 =28Mrad/sn are given.

For the **amplifier**, ri=100k and ci=100pF'dır.

The output parasitic capacitance and the output resistance

Of the **amplifier** can be ignored.

Find the phase margin of the **circuit**.



RY is not effective for the loop gain, since the output resistance can be ignored.

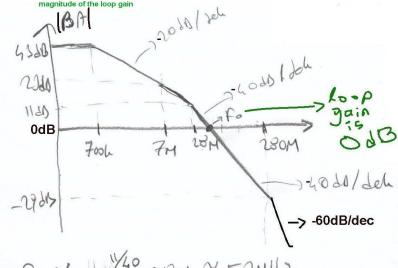
$$BA = \frac{(21+14)}{11} \frac{1}{32} = \frac{1674k}{5 \times 1674k \times 100p + 1}$$

$$BA = -\frac{2}{12} \frac{2}{12} \frac{2}{12} \frac{100k}{5 + 700k} \frac{1000.28M.280M}{(1 + 28M)(3 + 280M)}$$

$$BA = \frac{2}{12} \frac{100k}{5 + 700k} \frac{1000.28M.280M}{(1 + 28M)(3 + 280M)}$$

$$BA = \frac{2}{12} \frac{100k}{12} \frac{100k}{5 + 700k} \frac{1000.28M.280M}{(1 + 28M)(3 + 280M)}$$

$$BA = \frac{2}{12} \frac{100k}{12} \frac{1$$



Phase at fo
$$|80 - 89 - 62 - | = 180$$

The circuit is stable. Phase margin is 18°

