



$$V_{PDN} = \frac{GP}{1-AGP}$$

$$V_{control} = \frac{G}{1-AGP}$$

$$V_{LBerror} = \frac{1}{1-AGP}$$

$$G(s)P(s) = \frac{V_{PDN}}{V_{LBerror}} = \sqrt{10} \times (\text{Open loop gain})$$

Actual

$$P(s) = \frac{V_{PDN}}{V_{control}}$$

$$G(s) = \frac{V_{control}}{V_{LBerror}}$$