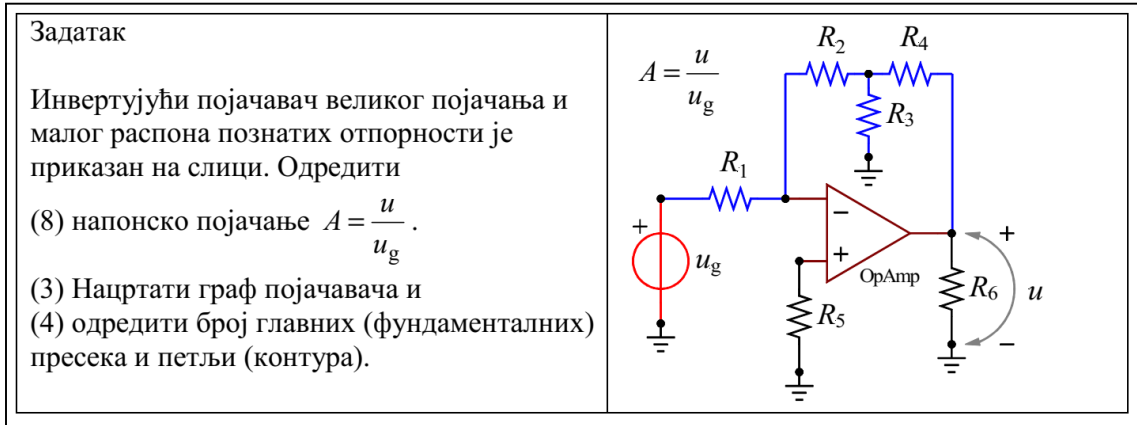


Figure 1: Инвертујући појачавач великог појачања



```
(%i1) jednacine: [v1/R5 = 0,
                  (v2-v5)/R1 + (v2-v4)/R2 = 0,
                  v3/R6 + iopAmp + (v3-v4)/R4 = 0,
                  v1 - v2 = 0,
                  (v4-v2)/R2 + v4/R3 + (v4-v3)/R4 = 0,
                  iug + (v5-v2)/R1 = 0,
                  v5 = ug];

(%o1) [-v1/R5=0, v2-v5/R1+v2-v4/R2=0, v3-v4/R4+v3/R6+iopAmp=0, v1-v2
=0, v4-v3/R4+v4-v2/R2+v4/R3=0, v5-v2/R1+iug=0, v5=ug]

(%i2) promenljive: [v1, v2, v3, v4, v5, iopAmp, iug];
(%o2) [v1, v2, v3, v4, v5, iopAmp, iug]

(%i3) odziv: linsolve(jednacine, promenljive);
(%o3) [v1=0, v2=0, v3=-R2 (R4 ug+R3 ug)+R3 R4 ug / (R1 R3), v4=-
R2 ug / R1, v5=ug, iopAmp=-R2 (R6 ug+R4 ug+R3 ug)+R3 R6 ug+R3 R4 ug / (R1 R3 R6), iug=-ug / R1]

(%i4) A: v3/ug, odziv, ratsimp;
(%o4) -(R3+R2) R4+R2 R3 / (R1 R3)

(%i5) limit(A, R4, 0);
(%o5) -R2 / R1
```

```
(%i6) limit(A, R3, inf);
```

```
(%o6)  -  $\frac{R4 + R2}{R1}$ 
```

```
(%i7) limit(limit(A, R3, inf), R4, 0);
```

```
(%o7)  -  $\frac{R2}{R1}$ 
```