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<a href="#">[KEMBALI KE MENU SEBELUMNYA]</a></div>  
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auto; padding: 10px; text-align: center; width: 330px;">  
<b>DAFTAR ISI</b>  
<br />  
<div style="text-align: left;">  
<a href="#tujuan">1. Tujuan</a></div>  
<div style="text-align: left;">  
<a href="#alat">2. Alat dan Bahan</a></div>  
<div style="text-align: left;">  
<a href="#dasar">3. Dasar Teori</a></div>  
<div style="text-align: left;">  
<a href="#percobaan">4. Percobaan</a><br />  
<div style="text-align: left;">  
<a href="#video">5. Video</a></div>  
<div style="text-align: left;">  
<a href="#download">6. Download File</a>&nbsp;</div>  
</div>  
</div>  
</center>  
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style="text-align: left;"><li>Dapat memahami materi op-amp basics.</li><li>Dapat memahami  
rangkaian op-amp basics.</li><li>Dapat mensimulasikan rangkaian op-amp  
basics.</li></ul></blockquote><p style="text-align: justify;"><a href="https://www.blogger.com/null"  
name="alat">2. Alat dan Bahan</a><a href="#home">[kembali]</a></p><p><span>&nbsp;&nbsp;&nbsp;&  
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&nbsp;&nbsp;&nbsp;</span><span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
&nbsp;&nbsp;&nbsp;</span><span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
&nbsp;&nbsp;&~</span><span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~</span><span>&nbsp;&nbsp;&nbsp;&nbsp;&~</span><span>&nbsp;&nbsp;&~</span><span>&nbsp;&nbsp;&~</span>  
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[illegible]

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</style>

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 100Ω). Rangkaian dasar dibuat

menggunakan penguat berbeda yang memiliki dua input (positif dan negatif) dan setidaknya satu output. Input positif (+) menghasilkan output fase yang sama dengan sinyal yang diterapkan, sedangkan input ke input negatif (-) menghasilkan polaritas output yang berlawanan. Rangkaian op-amp yang ideal akan memiliki nilai impedansi input tak hingga, nilai

impedansi keluaran nol, dan nilai penguat tegangan tak hingga.</div><div style="text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div>
</div><div style="text-align: justify;"> <div class="separator" style="clear: both; text-align: center;"></div></div><div style="text-align: justify;"> </div><div style="text-align: justify;">Op-Amp Dasar

 Rangkaian yang ditunjukkan menggunakan operasi sebagai constant-gain multiplier. Sinyal input, V_{in1} , diterapkan melalui resistor R_{in1} ke input negatif. Output kemudian dihubungkan kembali ke input negatif yang sama melalui resistor R_f . Input positif terhubung ke ground. Karena sinyal V_{in1} diaplikasikan pada input negatif, output yang dihasilkan berlawanan secara bertahap dengan sinyal input. </div><div style="text-align: justify;">
</div><div class="separator" style="clear: both; text-align: center;"></div></div><div></div><div> ika
R_f persis sama dengan R₁, maka penguatan tegangannya sama dengan 1.

Constant Magnitude Gain</div><div>

Jika R_f adalah kelipatan dari R₁, penguatan amplifier keseluruhan bernilai konstan. Misalnya, jika R_f = 10R₁, maka</div><div><div style="text-align: justify;"><div class="separator" style="clear: both; text-align: center;"></div>Virtual Ground

Tegangan keluaran dibatasi oleh tegangan suplai, biasanya, beberapa volt. Seperti yang dinyatakan sebelumnya, penguatan tegangan sangat tinggi. Jika misalnya, V_o = -10 V dan A_v = 20.000, maka tegangan input akan menjadi
<div style="text-align: justify;">
 </div><div class="separator" style="clear: both; text-align: center;"></div>

 Konsep ini membuktikan walaupun tegangan hampir 0 V, tidak ada arus melalui input penguat ke ground. Arus hanya melalui resistor R₁ dan R_f seperti yang ditunjukkan pada gambar.
<div>kita juga bisa mendapatkan persamaan I dari konsep virtual griund.</div><div><div class="separator" style="clear: both; text-align: center;">klik disini<li style="text-align: justify;">Download rangkaian klik disini<li style="text-align: justify;">Download vidio klik disini
<li style="text-align: justify;">Download datasheet dioda klik disini<li style="text-align: justify;">Download datasheet resistor klik disini