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<div style="text-align: center;">

[Menuju Akhir]</div>

<p style="text-align: center;">OP-AMP UNIT SPECIFICATIONS</p><center>

<div style="background-color: white; border: 2px dashed rgb(23, 128, 221); height: 240px; overflow: auto; padding: 10px; text-align: center; width: 330px;">

DAFTAR ISI

<div style="text-align: left;">

1. Tujuan</div>

<div style="text-align: left;">

2. Alat dan Bahan</div>

<div style="text-align: left;">

3. Dasar Teori</div>

<div style="text-align: left;">

4. Rangkaian</div>

<div style="text-align: left;">

5. Prinsip Kerja</div>

<div style="text-align: left;">

6. Video Simulasi</div>

<div style="text-align: left;">

7. Example,problem

<div style="text-align: left;">

[8. Download File](#Link Download)

[1.Tujuan](#)

[1.Tujuan \[Kembali\]](#awal)

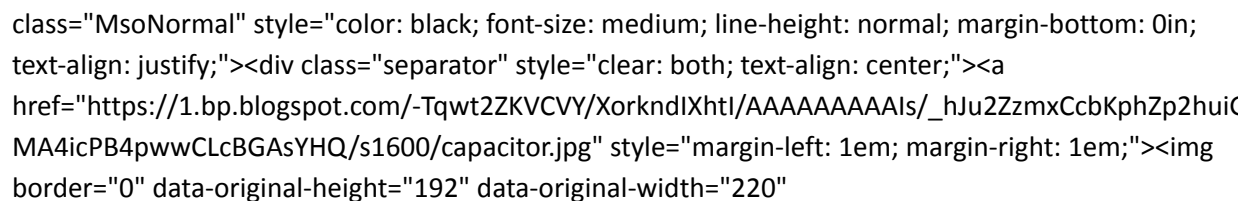
- Mengetahui prinsip kerja dari sebuah triangle wave generator
- Mampu menentukan parameter yang mempengaruhi sinyal output triangle wave generator

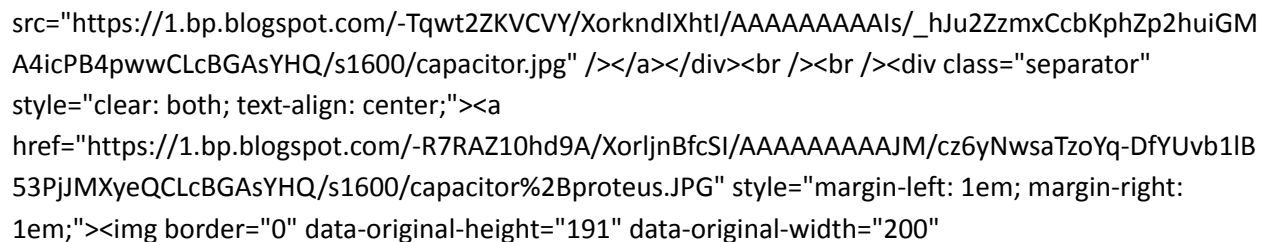
[2.Alat dan Bahan \[Kembali\]](#awal)

- Alat yang digunakan

capasitor polar

Kapasitor atau kondensator oleh ditemukan oleh Michael Faraday (1791-1867) pada hakikatnya adalah suatu alat yang dapat menyimpan energi/ muatan listrik di dalam medan listrik, dengan cara mengumpulkan ketidakseimbangan internal dari muatan listrik atau komponen listrik yang mampu menyimpan muatan listrik yang dibentuk oleh permukaan (piringan atau kepingan) yang berhubungan yang dipisahkan oleh suatu penyekat.





Cara membaca capacitor:
1.Ketahui unit pengukuran capacitor

text-align: center;">"></div>2. Baca nilai kapasitans.</div><div class="separator" style="clear: both; color: black; font-size: medium; text-align: center;"></div>3. Carilah nilai toleransi.<br style="color: black; font-size: medium;" /><div class="separator" style="clear: both; color: black; font-size: medium; text-align: center;"></div>4. Periksa rating voltase.<br style="color: black; font-size: medium;" /><div class="separator" style="clear: both; color: black; font-size: medium; text-align: center;"></div>5. Cari lambang + atau -<br style="color: black; font-size: medium;" /><div class="separator" style="clear: both; color: black; font-size: medium; text-align: center;"></div><div>
</div><div><div><p style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px;"></p>b. Ground
<p style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px;"></p><div><div><div class="separator" style="background-color: white; clear: both; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; text-align: center;"></div><div class="separator" style="background-color: white; clear: both; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; text-align: center;">
</div>Ground adalah titik yang dianggap sebagai titik kembalinya arus listrik arus searah atau titik kembalinya sinyal bolak balik atau titik patokan (referensi) dari berbagai titik tegangan dan sinyal listrik di dalam rangkaian elektronika.

Dalam Elektronika, ground yang dimaksud adalah ground semu (boleh juga nanti dihubungkan dengan ground sesungguhnya untuk pengamanan terhadap setrum).

Yang dimaksud titik "ground semu" adalah titik tersebut dihubungkan dengan body alat elektronik yang terbuat dari logam sehingga semua komponen di dalamnya tertutupi oleh ground semu itu.

Dengan cara ini jika ada (dan pasti ada) gelombang elektromagnetik dari udara sekitarnya tidak masuk ke alat elektronik kita.

Ground pada elektronik berfungsi sebagai:

1. Sebagai proteksi peralatan elektronik atau instrumentasi sehingga dapat mencegah kerusakan akibat adanya bocor tegangan.

2. Grounding di dunia elektronika berfungsi untuk menetralkan cacat (noise) yang disebabkan baik oleh daya yang kurang baik, ataupun kualitas komponen yang tidak standar.
Simbol Grounding Listrik

Sama seperti kebanyakan istilah dalam dunia kelistrikan sering terdapat simbol yang berbeda beda di tiap negara begitupun juga dengan simbol grounding listrik yang terdapat beberapa yang umum digunakan. Pada peralatan kelistrikan tentunya kita tidak jarang melihat ikon simbol dibawah ini bukan.</div>
<div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; text-align: center;"></div>
</div>Simbol grounding

Kesemuanya adalah sama yaitu sebagai simbol grounding listrik. Fungsi dari simbol ini tentu saja banyak sekali misalnya saat proses gambar teknik instalasi listrik, proses pembangunan gedung, troubleshooting pada saat terjadi kegagalan ataupun maintenance instalasi listrik.</div></div><div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px;">
</div>c. Sumber tegangan AC (VSINE) atau menggunakan Signal Generator
<div style="text-align: center;"></div>Signal Generator berfungsi sebagai sumber tegangan AC pada rangkaian yang frekuensi, amplitudo, dan bentuk gelombangnya dapat diatur.</div><div>
</div>d. Osiloskop
<div style="text-align: center;"></div><div class="separator" style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="clear: both;">Osiloskop adalah alat ukur elektronika yang berfungsi memproyeksikan bentuk sinyal listrik. Osiloskop dilengkapi dengan tabung sinar katode. Peranti pemancar elektron memproyeksikan sorotan elektron ke layar tabung sinar katode.</div><div

class="separator" style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px;">
</div><div class="separator" style="clear: both;"><ul style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; line-height: 1.4; list-style-image: initial; list-style-position: initial; margin: 0.5em 0px; padding: 0px 2.5em;"><li style="border: none; margin: 0px 0px 0.25em; padding: 0px;">Bahan yang digunakana. Resistor<div><div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; text-align: center;"></div>Spesifikasi:

- Resistance (Ohms) : 220 V
- Power (Watts) : 0,25 W, ¼ W
- Tolerance : ± 5%
- Packaging : Bulk
- Composition : Carbon Film
- Temperature Coefficient : 350ppm/°C
- Lead Free Status : Lead Free
- RoHS Status : RoHs Compliant

Resistor merupakan salah satu komponen elektronika pasif yang berfungsi untuk membatasi arus
yang mengalir pada suatu rangkaian dan berfungsi sebagai teminal antara dua komponen elektronika. Tegangan pada suatu resistor sebanding dengan arus yang melewatinya.

<div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; text-align: center;">(V = I.R)</div>
Satuan nilai Resistor atau Hambatan adalah Ohm. Nilai Resistor biasanya diwakili dengan kode angka ataupun gelang warna yang terdapat di badan resistor. Hambatan resistor sering disebut juga dengan resistansi atau resistance.

Rumus dari Rangkaian Seri Resistor adalah :

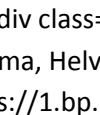
$R_{total} = R_1 + R_2 + R_3 + \dots + R_n$

Rumus dari Rangkaian Seri Resistor adalah :

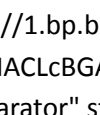
$\frac{1}{R_{total}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots + \frac{1}{R_n}$

Berikut adalah macam-macam resistor dan simbolnya

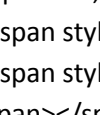
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</div><div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; text-align: left;"><div class="MsoNormal" style="color: black; font-family: "Times New Roman"; font-size: medium; line-height: normal; margin-bottom: 0in; text-align: justify;">Cara membaca Resistor:
<div class="separator" style="clear: both; text-align: center;"><a href="https://1.bp.blogspot.com/-K26oke-FKH0/Xormd8c9nul/AAAAAAAAAJ0/hE64x7V2Zq4VmUNPAhM3h-gbTtEcwni7ACLcBGAsYHQ/s1600/cara%2Bbaca%2Bres.PNG" style="margin-left: 1em; margin-right:


[!\[\]\(c13ff8a37cb800c05f822c2513265584_img.jpg\)](https://1.bp.blogspot.com/-K26oke-FKH0/Xormd8c9nul/AAAAAAAAAJ0/hE64x7V2Zq4VmUNPAhM3h-gbTtEcwni7ACLcBGAsYHQ/s1600/cara%2Bbaca%2Bres.PNG)

b. Operational Amplifier



[!\[\]\(1e68f8cc40a849d151f2d0ea14edac7b_img.jpg\)](https://1.bp.blogspot.com/-gSsqllbh_5E/YB-i5tOxJ9I/AAAAAAAAACUk/fyP_9NzheQMZ3MfLQ06fWYkhWsW0j5JIAClCBGAsYHQ/s300/LM741-741-IC-OP-AMP-Operational-Amplifier-IC.jpg)



Berikut ini adalah spesifikasi dasar IC 741:

- Power Supply:
 - Membutuhkan tegangan minimal 5V dan dapat menahan hingga 18V
 - Impedansi Input:
 - Sekitar 2 megaohm
 - Impedansi keluaran:
 - Sekitar 75 ohm
 - Gain Tegangan:
 - 200.000 untuk frekuensi rendah
 - Arus Keluaran Maksimum:

style="box-sizing: border-box; vertical-align: inherit;"> 20mA<li style="box-sizing: border-box; list-style-type: disc;">Beban Keluaran yang Disarankan: Lebih dari 2 kilohm<li style="box-sizing: border-box; list-style-type: disc;">Input Offset: Rentang antara 2mV dan 6mV<li style="box-sizing: border-box; list-style-type: disc;">Laju Perubahan Tegangan 0,5V / mikrodetik (Ini adalah laju di mana Op-Amp dapat mendeteksi perubahan voltase)Impedansi masukan yang tinggi dan impedansi keluaran yang sangat kecil membuat IC 741 menjadi penguat tegangan yang mendekati ideal.</div><div class="separator" style="clear: both;">
</div>Pinout dari IC 741 Op Amp dan Fungsinya <h3 style="background-color: white; box-sizing: border-box; color: black; font-family: sans-serif; font-size: 24px; line-height: 1.2; margin: 0px 0px 16px;"></h3>Gambar di bawah mengilustrasikan konfigurasi pin dan diagram blok internal IC 741 dalam kemasan kaleng logam DIP dan TO5-8 8 pin. <p style="box-sizing: border-box; margin: 0px 0px 26px; padding: 0px;">

srcset="https://www.electronicshub.org/wp-content/uploads/2018/03/IC-741-Op-Amp-Tutorial-Pinout.jpg 1000w, https://www.electronicshub.org/wp-content/uploads/2018/03/IC-741-Op-Amp-Tutorial-Pinout-300x170.jpg 300w, https://www.electronicshub.org/wp-content/uploads/2018/03/IC-741-Op-Amp-Tutorial-Pinout-768x435.jpg 768w" style="border: 0px; box-sizing: border-box; clear: both; display: block; height: auto; margin: 0px auto 20px; max-width: 100%; min-height: 1px;" width="1000" /> Sekarang mari kita lihat fungsi dari berbagai pin IC 741:</p><ul style="background-color: white; box-sizing: border-box; color: #666666; margin: 0px 0px 26px 40px; padding: 0px;"><li style="box-sizing: border-box; list-style-type: disc;">Pin4 & Pin7 (Catu Daya): Pin7 adalah terminal catu tegangan positif dan Pin4 adalah terminal catu tegangan negatif. IC 741 mengambil daya untuk operasinya dari pin ini. Tegangan antara kedua pin ini bisa berkisar antara 5V dan 18V.<ul style="background-color: white; box-sizing: border-box; color: #666666; margin: 0px 0px 26px 40px; padding: 0px;"><li style="box-sizing: border-box; list-style-type: disc;">Pin6 (Output): Ini adalah pin output dari IC 741. Tegangan pada pin ini tergantung pada sinyal pada pin input dan mekanisme umpan balik yang digunakan. Jika keluaran dikatakan tinggi berarti tegangan pada keluaran tersebut sama dengan tegangan suplai positif. Demikian pula jika output dikatakan rendah, berarti tegangan pada output sama dengan tegangan suplai negatif.<ul style="background-color: white; box-sizing: border-box; color: #666666; margin: 0px 0px 26px 40px; padding: 0px;"><li style="box-sizing: border-box; list-style-type: disc;">Pin2 & Pin3 (Input): Ini adalah pin input untuk IC. Pin2 adalah masukan pembalik dan Pin3 adalah masukan non-pembalik. Jika tegangan pada Pin2 lebih besar dari tegangan pada Pin3, yaitu tegangan pada masukan pembalik lebih tinggi, sinyal keluaran tetap rendah. Demikian pula, jika tegangan pada Pin3 lebih besar dari tegangan pada Pin2, yaitu tegangan pada masukan non-pembalik tinggi, keluaran menjadi

tinggi.

- Pin1 & Pin5 (Offset Null): Karena penguatan tinggi yang diberikan oleh 741 Op-Amp, bahkan sedikit perbedaan tegangan pada input pembalik dan non-pembalik, yang disebabkan karena ketidakteraturan dalam proses manufaktur atau gangguan eksternal, dapat mempengaruhi keluaran.
- Untuk meniadakan efek ini, tegangan offset dapat diterapkan pada pin1 dan pin5, dan biasanya dilakukan dengan menggunakan potensiometer.
- Pin8 (N / C): Pin ini tidak terhubung ke sirkuit apa pun di dalam IC 741.
- Ini hanya timah tiruan yang digunakan untuk mengisi ruang kosong dalam paket standar 8 pin.

3. Dasar Teori

3. Dasar Teori [Kembali]

Operational Amplifier

Operational Amplifier atau yang di singkat op-amp merupakan salah satu komponen analog yang sering digunakan dalam berbagai aplikasi rangkaian elektronika. Aplikasi op-amp yang paling sering dipakai antara lain adalah rangkaian inverter, non-inverter, buffer, adder (penjumlah), integrator dan differensiator.

1. Rangkaian Inverting

Rangkaian penguat inverting merupakan rangkaian elektronika yang berfungsi untuk memperkuat dan membalik polaritas sinyal masukan. Jadi, ada tanda minus pada rumus penguatannya. Penguatan inverting amplifier adalah bisa lebih kecil nilai besaran dari 1. Sebuah penguat pembalik menggunakan umpan balik negatif untuk membalik dan menguatkan sebuah tegangan.

</div><div class="separator" style="clear: both; text-align: center;"></div>

 Resistor Rf melewati sebagian sinyal keluaran kembali ke masukan. Karena keluaran tak sefase sebesar 180 derajat, maka nilai keluaran tersebut secara efektif mengurangi besar masukan. Rumus dan rangkaian inverting dideskripsikan sebagai berikut :</div><div align="center" class="MsoNormal" style="line-height: normal; margin-bottom: 0in; text-align: center;">
</div><div class="MsoNormal" style="line-height: normal; margin-bottom: 0in;"><div class="separator" style="clear: both; text-align: center;"></div></div><div class="MsoNormal" style="line-height: normal; margin-bottom: 0in;">
</div><div class="MsoNormal" style="line-height: normal; margin-bottom: 0in;">2. Rangkaian Non-Inverting
Penguat non-inverting amplifier merupakan kebalikan dari penguat inverting, dimana input dimasukkan pada input non-inverting sehingga polaritas output akan sama dengan polaritas input tapi memiliki penguatan yang tergantung dari besarnya hambatan feedback dan hambatan input. Penguat ini memiliki masukan yang dibuat melalui input non-inverting. Dengan demikian tegangan keluaran rangkaian ini akan satu fasa dengan tegangan inputnya. Rumus dan rangkaian non-inverting dideskripsikan sebagai berikut:</div><div class="MsoNormal" style="line-height: normal; margin-bottom: 0in;">
</div><div class="separator" style="clear: both; text-align: center;">

QyoS_izL1gCLcBGAsYHQ/s1600/non%2Binverting.PNG" /></div></div><div class="MsoNormal" style="line-height: normal; margin-bottom: 0in;">
</div><div class="MsoNormal" style="line-height: normal; margin-bottom: 0in;">Triangle Wave Generator atau Pembangkit Gelombang Segitiga umumnya terdiri dari 2 bagian utama. Bagian utama tersebut adalah rangkaian Non-Inverting schmitt trigger oleh A1 dan rangkaian integrator yang dibangun oleh A2. Output rangkaian NonInverting schmitt trigger pada Triangle Wave Generator atau Pembangkit Gelombang Segitiga ini berupa gelombang kotak yang digunakan untuk driver rangkaian integratorA2.

<div class="separator" style="clear: both; text-align: center;"></div>

<div class="separator" style="clear: both; text-align: center;"></div>Rangkaian integrator yang diberi input gelombang kotak akan memberikan output berupa gelombang segitiga dan digunakan untuk umpan balik (feedback ke rangkaian Non-Inverting schmitt trigger A1 pada rangkaian Triangular Wave Generator atau Pembangkit Gelombang Segitiga ini sehingga rangkaian NonInverting schmitt trigger A1 akan memberikan input ke integrator lagi dan hal ini berulang terus</div><div>
</div></div></div>

<p>

Rangkaian simulasi [Kembali]</p><div style="text-align: center;"></div><div style="text-align: center;"><div> Gambar Rangkaian</div><div></div><div>Bentuk gelombang</div><div></div><div>Bentuk Gelombang</div></div><p>

Prinsip kerja [Kembali]</p><p>Pada saat tegangan sumber pertama kali diberikan pada rangkaian oscilator gelombang segitiga diatas output rangkaian schmitt trigger akan berada pada kondisi jenuh positif atau negatif. Apabila di asumsikan kondisi output pada output schmitt trigger adalah jenuh positif maka arus listrik mengalir menuju kapasitor C melalui resistor R1 ketika titik A jenuh positif tersebut. Ketika muatan listrik mulai menyimpan di kapacitor, tegangan dari kedua sisi dari kapasitor mulai naik karena jalaurnya input inverting dari IC2 adalah sekitar 0V, tegangan integrator (titik B) turun secara bertahap.

Tegangan pada titik C juga turun ketika tegangan dari titik B mulai turun. (presentase penurunan tergantung pada rasio resistor R2 dan R3). ketika tegangan di titik C turun dibawah 0 V, tegangan input di titik A schmitt trigger berubah keminus dengan cepat. Agar tegangan di titik C turun menjadi 0V dibutuhkan nilai R2 > R3. Kemudian aliran arus reverse dari kapasitor C ke titik A melalui R1 resistor. Dengan kondisi ini pada titik B naik secara bertahap. ketika tegangan di titik C melebihi 0V, output titik A schmitt berubah menjadi positif dengan cepat sehingga membuat perubahan pada titik B ke arah negative.

Proses diatas berulang terus sehingga membentuk sinyal output gelombang segitiga pada titik B (output 1) dan gelombang kotak pada titik A (output 2) pada rangkaian oscilator gelombang segitiga diatas.</p>

<p>

Video simulasi [Kembali]</p><div class="separator" style="clear: both; text-align: center;"><iframe allowfullscreen="" class="BLOG_video_class" height="266" src="https://www.youtube.com/embed/if0pdt-eJ7Q" width="320" youtube-src-id="if0pdt-eJ7Q"></iframe></div>
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<p>

Example, problem [Kembali]</p><p>Example</p><div class="MsoNormal"><div class="separator" style="clear: both; text-align: center;"><a href="https://1.bp.blogspot.com/-SV2HPeReZTQ/XorxjclFrBI/AAAAAAAAAL4/_CgcMwmQUCUunDhXY6Jbndpalw-_z8aIAClBGAsYHQ/s1600/Output-Oscilator-Gelombang-Segitiga.gif" style="margin-left: 1em;


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</xml><![endif]--><!--[if gte mso 10]>
<style>
/* Style Definitions */
table.MsoNormalTable
{mso-style-name:"Table Normal";
mso-tstyle-rowband-size:0;
mso-tstyle-colband-size:0;
```

mso-style-noshow:yes;
mso-style-priority:99;
mso-style-parent:"";
mso-padding-alt:0in 5.4pt 0in 5.4pt;
mso-para-margin-top:0in;
mso-para-margin-right:0in;
mso-para-margin-bottom:10.0pt;
mso-para-margin-left:0in;
line-height:115%;
mso-pagination:widow-orphan;
font-size:11.0pt;
font-family:"Calibri","sans-serif";
mso-ascii-font-family:Calibri;
mso-ascii-theme-font:minor-latin;
mso-hansi-font-family:Calibri;
mso-hansi-theme-font:minor-latin;
mso-bidi-font-family:"Times New Roman";
mso-bidi-theme-font:minor-bidi;}

</style>

<![endif]--></div><div align="center" class="MsoNormal" style="line-height: 12.65pt; margin-bottom: 0in; text-align: center;">100 = 1/4xC1x10 X 10/5</div><div align="center" class="MsoNormal" style="line-height: 12.65pt; margin-bottom: 0in; text-align: center;">
</div><div align="center" class="MsoNormal" style="line-height: 12.65pt; margin-bottom: 0in; text-align: center;">C1 = 5mF</div>

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</xml><![endif]--><!--[if gte mso 9]><xml>
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 <w:SnapToGridInCell/>
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<w:DontFlipMirrorIndents/>

<w:OverrideTableStyleHps/>

</w:Compatibility>

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</m:mathPr></w:WordDocument>

</xml><![endif]--><!--[if gte mso 9]><xml>

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<w:LsdException Locked="false" Priority="39" QFormat="true" Name="TOC Heading"/>
</w:LatentStyles>
</xml><![endif]--><!--[if gte mso 10]>
<style>
/* Style Definitions */
```

table.MsoNormalTable

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{mso-style-name:"Table Normal";  
mso-tstyle-rowband-size:0;  
mso-tstyle-colband-size:0;  
mso-style-noshow:yes;  
mso-style-priority:99;  
mso-style-parent:"";  
mso-padding-alt:0in 5.4pt 0in 5.4pt;  
mso-para-margin-top:0in;  
mso-para-margin-right:0in;  
mso-para-margin-bottom:10.0pt;  
mso-para-margin-left:0in;  
line-height:115%;  
mso-pagination:widow-orphan;  
font-size:11.0pt;  
font-family:"Calibri","sans-serif";  
mso-ascii-font-family:Calibri;  
mso-ascii-theme-font:minor-latin;  
mso-hansi-font-family:Calibri;  
mso-hansi-theme-font:minor-latin;  
mso-bidi-font-family:"Times New Roman";  
mso-bidi-theme-font:minor-bidi;}
```

</style>

<![endif]>
<div class="MsoNormal">3. Sebuah gelombang segitiga dengan tegangan 25 V memiliki arus 5A. Arus ini melewati hambatan $R_2=15\ \Omega$ dan $R_3=30\ \Omega$. kapasitornya bernilai 5 F. tentukanlah frekuensi gelombang segitiga berikut.</div>
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  <m:dispDef/>
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</xml><![endif]--><!--[if gte mso 9]><xml>
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[illegible]

antar puncak adalah

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