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| <div style="border-left: 1px solid black; padding-left: 5px;"> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> <div style="color: red;">></div> $V_{out} = V_{ref} \cdot \left(1 + \left(\frac{R2}{R1} \right) \right)$ </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> <div style="color: red;">></div> $isolate(\textbf{(1)}, R2)$ </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> <div style="color: red;">></div> $V_{ref} = 1.23$ </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> <div style="color: red;">></div> $R1 = 1000$ </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> <div style="color: red;">></div> $R2 = \left(\frac{V_{out}}{V_{ref}} - 1 \right) R1$ </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> <div style="color: red;">></div> $\left(\left(\frac{16.8}{V_{ref}} \right) - 1 \right) \cdot R1$ </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> <div style="color: red;">></div> $\left(\left(\frac{16.8}{1.23} \right) - 1 \right) \cdot 1000$ </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> <div style="color: red;">></div> $\left(\left(\frac{8.4}{1.23} \right) - 1 \right) \cdot 1000$ </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> <div style="color: red;">></div> </div> </div> | <div style="color: blue;"> $V_{out} = V_{ref} \left(1 + \frac{R2}{R1} \right)$ </div> <div style="color: blue;"> $R2 = \left(\frac{V_{out}}{V_{ref}} - 1 \right) R1$ </div> <div style="color: blue;"> $V_{ref} = 1.23$ </div> <div style="color: blue;"> $R1 = 1000$ </div> <div style="color: blue;"> $R2 = \left(\frac{V_{out}}{V_{ref}} - 1 \right) R1$ </div> <div style="color: blue;"> $\left(\frac{16.8}{V_{ref}} - 1 \right) R1$ </div> <div style="color: blue;"> 12658.53659 </div> <div style="color: blue;"> 5829.268293 </div> | <div style="color: black;">(1)</div> <div style="color: black;">(2)</div> <div style="color: black;">(3)</div> <div style="color: black;">(4)</div> <div style="color: black;">(5)</div> <div style="color: black;">(6)</div> <div style="color: black;">(7)</div> <div style="color: black;">(8)</div> |
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