

#1. Given the currents as follows: A leg 10 amps, B leg, 20 amps, C leg 10 amps, what is the maximum unbalanced current flowing in the secondary?

| <i>GIVEN</i> | <i>FORMULA</i> | <i>SUBSTITUTION</i> | <i>SOLUTION</i> |
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#2. Given the currents as follows: A leg 20 amps, B leg, 30 amps, C leg 20 amps, what is the maximum unbalanced current flowing in the secondary?

| <i>GIVEN</i> | <i>FORMULA</i> | <i>SUBSTITUTION</i> | <i>SOLUTION</i> |
|--------------|----------------|---------------------|-----------------|
| | | | |

#3. Given the currents as follows: A leg 30 amps, B leg, 40 amps, C leg 50 amps, what is the maximum unbalanced current flowing in the secondary?

| <i>GIVEN</i> | <i>FORMULA</i> | <i>SUBSTITUTION</i> | <i>SOLUTION</i> |
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#4. Given the currents as follows: A leg 40 amps, B leg, 40 amps, C leg 40 amps, what is the maximum unbalanced current flowing in the secondary?

| <i>GIVEN</i> | <i>FORMULA</i> | <i>SUBSTITUTION</i> | <i>SOLUTION</i> |
|--------------|----------------|---------------------|-----------------|
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Note: amps maximum unbalanced amps in neutral = $\sqrt{(a^2 + b^2 + c^2 - ab - bc - ca)}$