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| **Touch a quantity for more information.** |
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| **1.** | **Solving for Eb** |  |
| **2.** | **Solving for Ee** |  |
| **3.** | **Solving for Ie** |  |

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CALCULATING Av - Remember to use this formula:
  Av = Rc ÷ (.025 ÷ Ie)
  Rc is the collector resistor.
  Ie is emitter current and is calculated by following the steps above.

CALCULATING Eb - Since R1 and R2 form a voltage divider, Eb (Er2) is is found by:
  1. Finding Rt:  Rt = R1 + R2
  2. Solving for It:  It = Ea ÷ Rt
  3. Calculating Eb:  Er2 = It x R2

CALCULATING Ee - Since the emitter to base PN junction drops 0.6 V, Ee equals:  Ee = Eb - 0.6 V



CALCULATING Ie - Ohm's Law is used to find emitter current (Ie):
  Ie = Ee ÷ Re