Consider the following circuit:

**Integration (think averaging!)**

* “Integration is the summation of area.” (Bell p.50)
* There is not enough time for the capacitor to fully charge or discharge.
  1. PW or PS is less than .
  2. “An integrating circuit is an RC circuit with the output taken across the capacitor and ”(Bell p.53)
  3. The standard formulas for designing an Integrating RC circuit is:
     + (Integration in terms of )
     + (Integration formula in terms of Time, not enough Time to charge or discharge)
  4. Additional formulas (derived previously):
     + (cycles)(stabilization)

See Image:

1. Is **not** an Integrator, the capacitor is fully charging and discharging.
2. Is **not** an Integrator, PW. 63% charge and discharge
3. Is an **Integrator,** Vmax and Vmin will alternate minimally equal distance above and below the average input generator voltage.

