202: Principles of electrical science  
**Worksheet 13: Sine wave quantities**

1. A sine wave has a peak voltage of 100v; calculate the RMS value.
2. A sine wave has a peak voltage of 100v; calculate the **average** value.
3. A sine wave has a peak voltage of 565.7v; calculate the RMS value.
4. A sine wave has a peak voltage of 565.7v; calculate the **average** value.
5. A sine wave has a peak voltage of 90v; calculate the RMS value.
6. A sine wave has a peak voltage of 90v; calculate the **average** value.
7. A sine wave has an RMS voltage of 40v; calculate the **peak** value.
8. A sine wave has an RMS voltage of 200v; calculate the **peak** value.