Chapter 2 Homework:

1. For the circuit shown, find the voltage *vab* and the power (generated or absorbed) by the 20V source.



1. For the circuit shown, find *Req* (the equivalent resistance “seen” by the source) and the current out of the source.



1. For the circuit shown, find *Req* (the equivalent resistance “seen” by the source) and the current *I4*.



1. For the circuit below, determine the current *i3*.



1. Find *Vab* and *V1* in the circuit below.



1. Determine the voltage *V1* in the circuit below.



1. For the circuit shown, find:
   1. Req (the equivalent resistance "seen" by the source)
   2. the power generated by the source
   3. The current through the 4Ω resistor



1. For the circuit shown, find:
   1. Req (the equivalent resistance "seen" by the source)
   2. the current delivered by the source
   3. The voltage difference across the 3Ω resistor.
   4. The voltage difference across the 2Ω resistor.



1. Determine the value of the resistance R which makes the current I = 2mA.



1. Determine the value of the source voltage VS which makes the voltage V1 = 2V.

