Chapter 5 Homework:

1. For the circuit shown, find Vout.



1. For the circuit shown, find the relationship between Vout and Vin.



1. For the circuit below find *i*, the current through the 16 Ω resistor.



1. For the circuit shown, find V*out*, the voltage across the 30kΩ resistor.



1. For the circuit below, determine:
2. The current, *i*, and voltage vout if *u(t) = 4V*
3. The current, *i*, and voltage *vout* if *u(t) = 2cos(5t)*



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1. Find the current I in the circuit below. Your answer may be a function of the voltage supply VS. Clearly show all your work.



1. For the circuit shown, find the voltage VOUT.



1. For the circuit shown, find Vout as a function of Vin.



1. Determine the currents *i1* and *i2* in the circuit below.



1. Determine the voltage v1 in the circuit below.



1. Determine the current *i1* in the circuit below.

