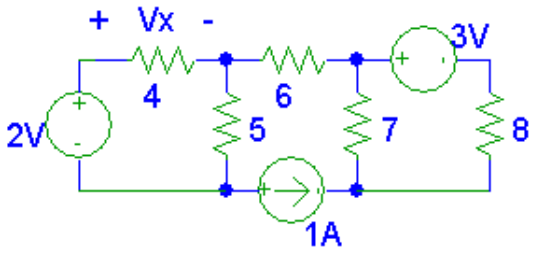
Superposition

Quick Review of Theory

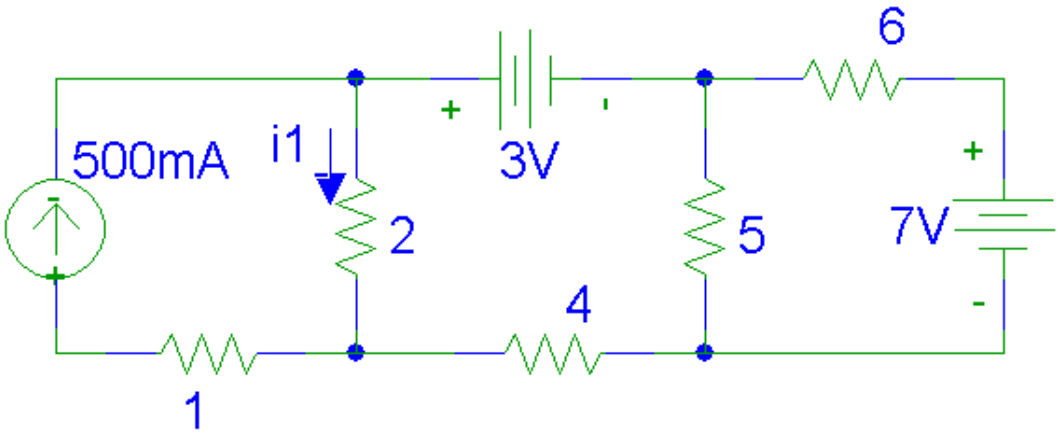
Example 1



Find the voltage Vx using superposition.

- Hint
- Solution

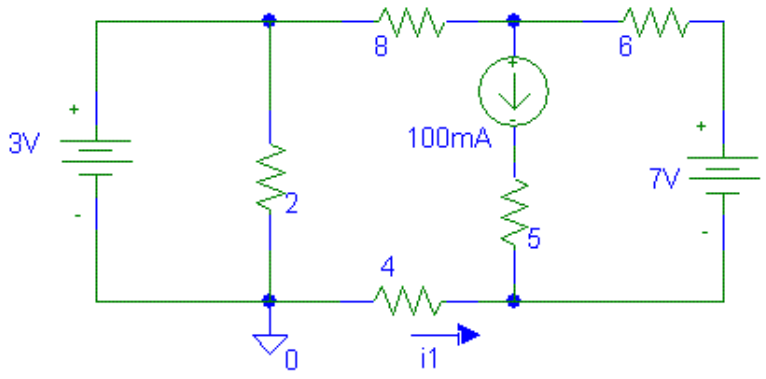
Example 2



Solve for the current i1 (through the 2 ohm resistor) in the circuit shown above using superposition

- Hint
- Solution

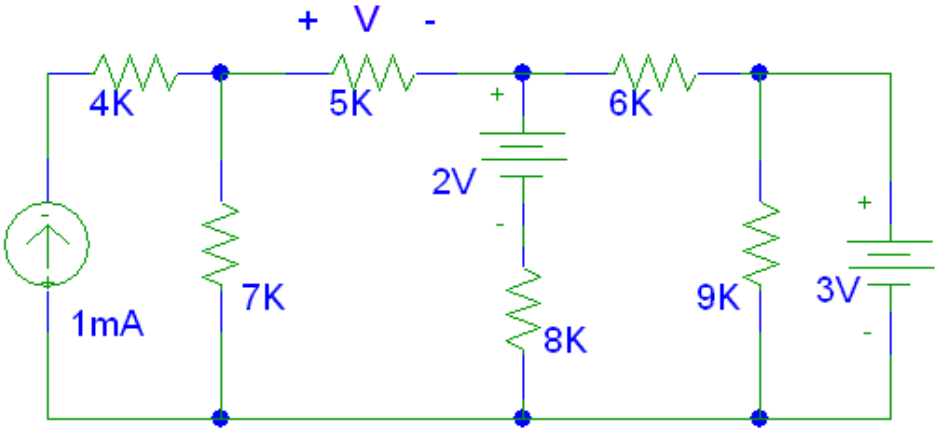
Example 3



Solve for the current I1 (through the 4 ohm resistor) in the circuit shown above using superposition.

- Solution

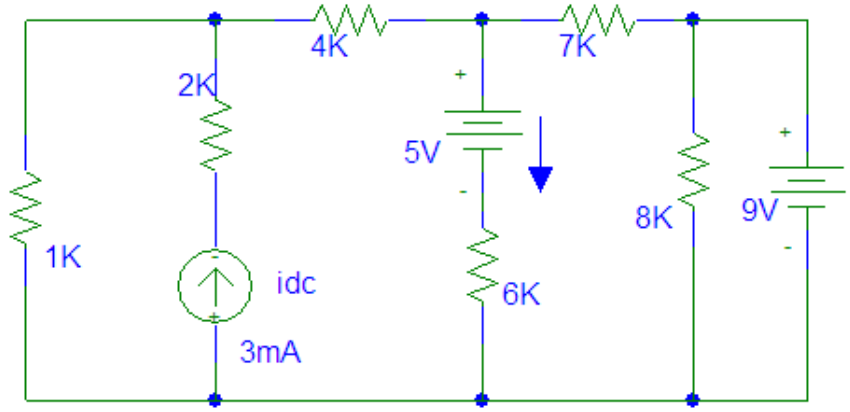
Example 4



Solve for the voltage V (across the 5 Kohm resistor) in the circuit shown above using superposition .

Solution

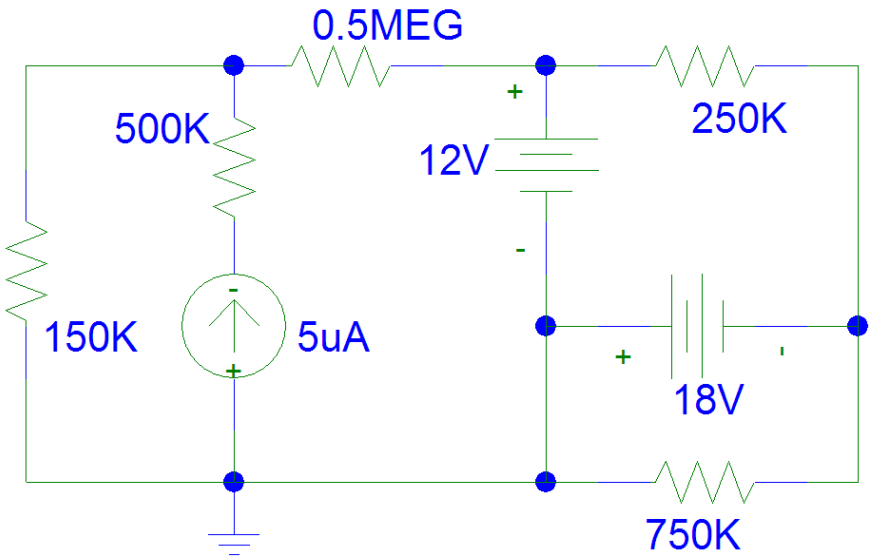
Example 5



Find the current flowing down through the 5V source in the circuit shown to the left using superposition.

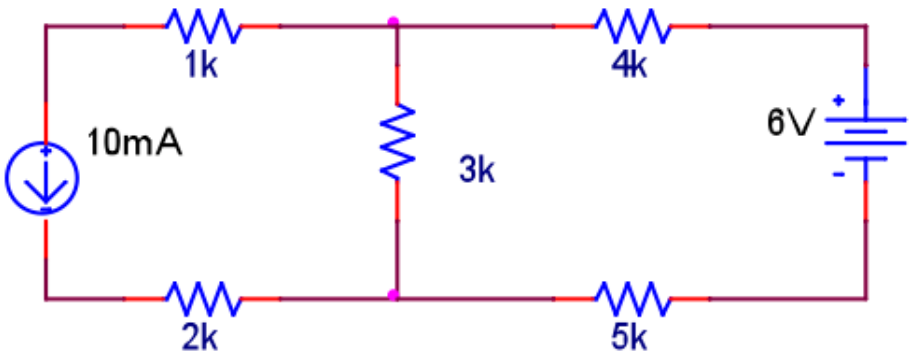
Solution

Example 6



Solve for the voltage over the 150 Kohm resistor (+ on the top, - on the bottom) using superposition.
Solution

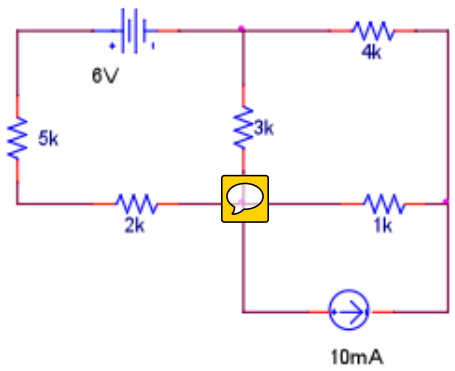
Example 7



Use superposition to find the current flowing downward through the 3Kohm resistor.

Solution

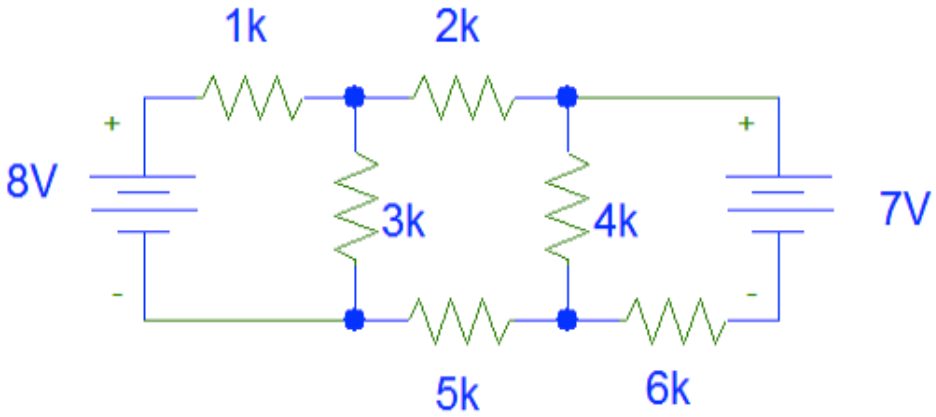
Example 8



Use superposition to find the power absorbed by the 2K resistor and the 10mA source in the circuit shown above.

Solution

Example 9

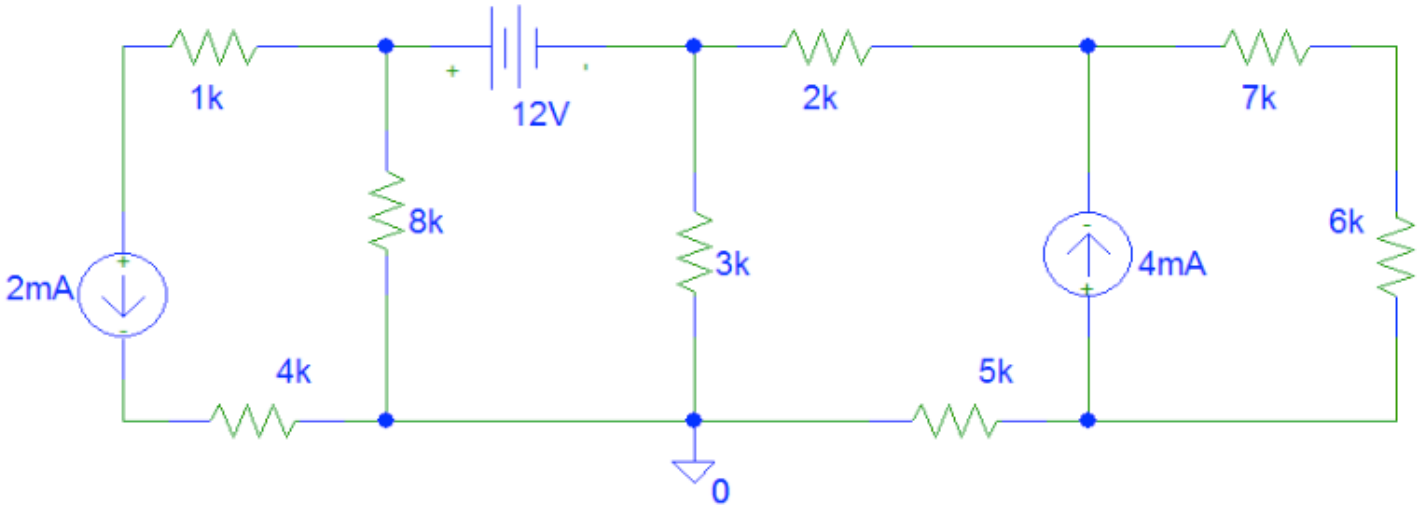


Solve for the current flowing right through the 2 K resistor in the circuit shown below, using superposition.

Solution

Example 10

Solve fo rthe current flowing down through the 3K ohm resistor in the middle of the circuit using superposition.



Solution
