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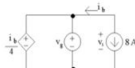
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## 2

### Circuit Elements

#### Assessment Problems

AP 2.1



[a] Note that the current  $i_k$  is in the same circuit branch as the 8 A current source; however,  $i_k$  is defined in the opposite direction of the current source. Therefore,

$$i_k = -8 \text{ A}$$

Next, note that the dependent voltage source and the independent voltage source are in parallel with the same polarity. Therefore, their voltages are equal, and

$$v_1 = \frac{8}{4} = \frac{-8}{4} = -2 \text{ V}$$

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