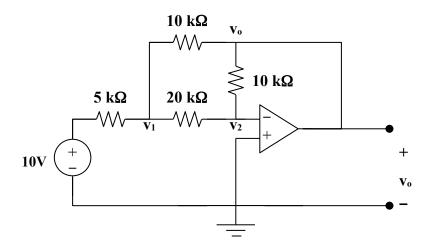
Chapter 5, Solution 14.

Transform the current source as shown below. At node 1,

$$\frac{10 - v_1}{5} = \frac{v_1 - v_2}{20} + \frac{v_1 - v_0}{10}$$



But
$$v_2 = 0$$
. Hence $40 - 4v_1 = v_1 + 2v_1 - 2v_0 \longrightarrow 40 = 7v_1 - 2v_0$ (1)

At node 2,
$$\frac{v_1 - v_2}{20} = \frac{v_2 - v_0}{10}$$
, $v_2 = 0$ or $v_1 = -2v_0$ (2)

From (1) and (2),
$$40 = -14v_0 - 2v_0 \longrightarrow v_0 = -2.5V$$