



Find Voi

$$V_0 = -3i_2(202)$$

 $V_2 = -5V_1$
 $V_1 = V_9 - (5V_1 \cdot 32)$
 $V_1 = \frac{1}{16}V_9$
 $V_2 = -\frac{5}{16}V_9$

Thevenin's Equivalent:

 $V_{th} = \text{open circuit voltage} = V_0 = 18.75 V_g$ $R_{th} = 2000$ because with V_g off $i_2 = i_3 = 0$ A leaving the only path between terminals a and be as the 2000 resistor shown.