Section 2-8: Multisim

Problem 2.55 Use the DC Operating Point Analysis in Multisim to solve for voltage $V_{\text{out}}$ in the circuit of Fig. P2.55. Solve for $V_{\text{out}}$ by hand and compare with the value generated by Multisim. See the solution for Exercise 2.17 (on ⚫) for how to incorporate circuit variables into algebraic expressions.

Circuit for Problem 2.55.

Solution:

A. By-Hand Solution

By voltage division:

$$V_{\text{out}} = \left( \frac{10}{10 + 25} \right) \times 2.5 = 0.714 \text{ V}.$$
B. By Multisim

Circuit in MultiSIM Schematic Capture

DC Operating Point Solution. The value in the last row, V(1)-V(3), is the specific solution to the problem.