1. For the following circuit, two linear equations are obtained from nodal analysis:
   \[ a v_1 + b v_2 = c \]
   \[ d v_1 + e v_2 = f \]

Determine all the coefficients in the equations:
\[ a = \quad ; \quad b = \quad ; \quad c = \quad ; \quad d = \quad ; \quad e = \quad ; \quad f = \quad . \]

2. For the following circuit, find \( v_1 \) and \( v_2 \) using nodal analysis.