```
% EQ 5: Firm's FOC for labor
if unitFree == 1
    eq5 = (-a_cu*ALFA*k_cu^(1-ALFA)*n_cu^(ALFA-1))/w_cu + 1;
else
    eq5 = -a_cu*ALFA*k_cu^(1-ALFA)*n_cu^(ALFA-1) + w_cu;
end

% EQ 6: National income identity
if unitFree == 1
    eq6 = (-c_cu - iv_cu)/y_cu + 1;
else
    eq6 = -c_cu - iv_cu + y_cu;
end

% EQ 7: Production function
if unitFree == 1
    eq7 = -1 + (a_cu*k_cu^(1-ALFA)*n_cu^(ALFA))/y_cu;
else
    eq7 = -y_cu + a_cu*k_cu^(1-ALFA)*n_cu^(ALFA);
end

% EQ 8: Law of motion for capital
if unitFree == 1
    eq8 = (-k_cup + (1-DELTA)*k_cu)/iv_cu + 1;
else
    eq8 = -k_cup + (1-DELTA)*k_cu + iv_cu;
end
```