HOMEWORK 1

ECE 580, 2023

In a switched capacitor circuit, initially $C_1 = 1$ pF is charged to $V_1 = 2$ V, and $C_2 = 1$ pF to $V_2 = 3$ V. At t = 0, the two capacitors are connected in parallel.

- (a) What will be the final voltage across them?
- (b) What will be the stored energy before joining the capacitors?
- (c) What will it be after the transient?
- (d) Where did the lost power go?