INTRO:
FINISH FORMAL CHARGE PRACTICE (ID/NUM OF LONE PAIRS/HO)

\[ F_C = e_V - e_o \rightarrow e_o = e_V - F_C \]

\[ \text{H} - (-1) = 7 \quad 5 - 0 = 5 \quad 4 - 1 = 3 \]

RESONANCE: SHIFTING CHARGES/\( \pi \) BONDS

REVIEW: \( \pi \) BONDS FORMED FROM ORBITALS

1) DRAW ALL ELECTRONS
2) FIND CONJUGATED PAIRS/\( \pi \) BONDS
3) DRAW ARROWS ONE AT A TIME
4) DRAW NEW STRUCTURE (INCLUDE CHARGES & PAIRS)
5) CHECK: NET CHARGE UNCHANGED, NO OCTETS EXCEEDED
6) STOP IF NO MORE CAN BE DRAWN

FUNCTIONAL GROUPS: DRAW FROM NAMES
- HYDROCARBONS: ALKANES, ALKENES, ALKynes
- MISC: ARENES, ALKYL HALIDES
- OXYGEN: ALCOHOLS, ETHERS
- NITROGEN: AMINES, NITRILES
- SULFUR: THIOLS, THIOETHERS
- CARBONYL: ALDEHYDES, KETONES,
  CARBOXYLIC ACIDS, ESTER, AMIDE

KAHOUT!

https://play.kahoot.it/v2/7quinid571dfadbb-ed10-4426-b0bb-f6b7ee56e2c2