Counting Majorana zero modes in superconductors LUIZ SANTOS, Harvard University, YUSUKE NISHIDA, MIT, CLAUDIO CHAMON, Boston University, CHRISTOPHER MUDRY, PSI, Switzerland — We present a counting formula for computing the number of (Majorana) zero modes bound to topological point defects. The counting formula is evaluated in a gradient expansion for systems with charge-conjugation symmetry. We will consider examples that include Dirac fermions and the chiral p-wave superconductor in two-dimensional space. In all cases, we explicitly relate the counting of zero modes to Chern numbers.