 (1) Search for a pattern.
 (2) Draw a figure.
 (3) Formulate an equivalent problem.
 (4) Modify the problem.
 (5) Choose effective notation.
 (6) Exploit symmetry.
 (7) Divide into cases.
 (8) Work backward.
 (9) Argue by contradiction.
(10) Pursue parity.
(11) Consider extreme cases.
(12) Generalize.