1. GCR;

2. ORTHODIR;

3. Generalized Simpler Approach:

   (a) RB-SGMRES: Using $Z_n = \tilde{R}_n$;
   (b) Simpler GMRES: Using $Z_n = V_n$;

4. Generalized Update Approach:

   (a) GMRESR: Using $Z_n = R_n$ (equivalent to original GCR);
   (b) UNNAMED?: Using $Z_n = \tilde{R}_n$ (is treated in paper);
   (c) $A^T A$-variant GMRES: Using $Z_n = V_n$ (up to normalization equivalent to ORTHODIR);