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**Solow Model Equations**

(I) Solow with population growth and no technological change.
(population = # of workers)

1. \( Y = K \lambda^L \)
2. \( L = n, S = s Y, C = (1 - s) Y \)
3. \( \Delta K = s Y - \delta K \)
4. \( K = s (Y/K) - \delta \)

Define new variables:
- \( y = Y/L \) (output per worker), \( k = K/L \) (capital per worker)

5. \( \Delta k = s y - (\delta + n) k \)

(II) Solow with technological change and population growth
(population = # of workers)

1. \( Y = K^\lambda (AL)^{1-\lambda} \)
2. \( L = n, S = s Y, C = (1 - s) Y \)
3. \( \Delta K = s Y - \delta K \)

Define new variables:
- \( \tilde{k} = K/L A \) (capital per effective unit of labor), \( \tilde{y} = Y/L A \) (output per effective unit of labor)

4. \( \Delta \tilde{k} = s \tilde{y} - (\delta + n + g) \tilde{k} \)