

**Example 4.4**

Three different constant pressure filtration experiments ( $V = 0 @ t = 0$ ) are completed. From each run, the plot of  $At/V$  versus  $V/A$  yielded a slope and intercept. The data for slope  $K'$  are:

$\Delta P$ (psi)	Slope ( $K'$ ) (s/cm <sup>2</sup> )
10	28.7
20	19.1
30	15.0

Find the compressibility index  $s$