Elijah M. 05410 HW3 R 176 5: 100 Gb a) There are 2:10° block transfers because each rest I T read/written once (in 5) In R their will 60 2.139 block + raw Kers = 2200 m 6 (ock transent total DNK Seek): BJ = 1665 165-166 5: = 1006b = 100 Sitk szers R: 1,000 Sisk b) The number of block transer during build and probe phote 15 LITE ZMA and the number of JUR Jeers is = 2 . 15 BUCKELS = There will be 150/1666 = 162.57 = 63 mitial TUNS. Block transfers: 2.63=126m and there Will be 2.63=126 dNR JEERS b) There will be 8 merge porxs (-63/8 f7.815)-8 and 126m block transfers

a) Block frans Fers. [1.176 (1000m duk blochs DIST SECKS 18 18 5: 16m/2 = 8m 5/ock (000mg) 100 mg 8m = 125 six section II is more advantageous to use meigrions as it requires for less block transens 1000m L 2200m TTAGERMSMT) - TTAGERMT) $\begin{array}{lll}
\omega & \text{TT}_{A}(R \cap S) = H_{A}(R) \cap H_{A}(S) \\
R(A) \cap S(A) = R(A) \cap S(A) \\
(A) & = (A) \\
TRUE$ b) 5 (RUS) = 3 (R) U (5) 8 3 a 11 2 3 a 11 and Developer Arensfor