

3Homework 15

$$\begin{bmatrix} 2 & -3 & 1 & 5 \\ 7 & 2 & -1 & 0 \end{bmatrix} \begin{bmatrix} 3 \\ 5 \\ -6 \\ 9 \end{bmatrix}$$

Mapper 1 $(1,1,2) \& (1,3) \rightarrow (1,6)$
 $(2,1,7) \& (2,3) \rightarrow (2,21)$

Mapper 2 $(1,2,-3) \& (2,5) \rightarrow (1,-15)$
 $(2,2,2) \& (2,5) \rightarrow (2,10)$

Mapper 3 $(1,3,1) \& (3,-6) \rightarrow (1,-6)$
 $(2,3,-1) \& (3,-6) \rightarrow (2,6)$

Mapper 4 $(1,4,5) \& (4,9) \rightarrow (1,45)$
 $(2,4,0) \& (4,9) \rightarrow (2,0)$

Reducer 1 $(1, [6, -15, -6, 45]) \rightarrow (1, 30)$

Reducer 2 $(2, [21, 10, 6, 0]) \rightarrow (2, 37)$