

		6
	V ( .T.() - ( / V.T.V.)	9
	iv) Finally, we want to show that B = (XTX) - (XTY).	-
	From part (iii) we had:	
	From part (iii) we had:  (XTX)B*= XTY	9
	Multiplying both sides of the above equation by the	•
	inverse of (XTX):	- 65
	inverse of $(X^TX)$ : $(X^TX)^{-1}(X^TX)\beta^* = (X^TX)^{-1}X^TY$	•
	The product of a matrix and its inverse is the identity matrix:	•
	IB* = (XTX) - XTY	•
		6
7.75.25.00.118	which can be simplified as $B^* = (X^T X)^{-1} X^T Y$	-
		6
	and the second of the second o	•
The Market	Problem 2: Please see attached code file.	•
le e	Parameter estimates from manual linear regression:	-
	Intercept = 2.93889 and marcodol & american	-6
	TV= 0.0457646	6
The second	Radio = 10.18853 mins to must get office of strains and the	. 6
The Market	Newspaper = -0.00103749	-
	and the sum of sounded periodically is great	-
	Parameter estimates from scikit-learn's linear regression:	8
	Intercept = 2.93889	6
	TV = 0.0457646	
	Radio = 0.18853	
	Raaio = 0.10000	
	Newspaper = -0.00103749	
	Therefore, the parameter estimates obtained from the two	
	procedures are the same.	
	and the second s	
	The state of the s	