ECO 610 Fall 2016 Problem Set #3

1. Labor and capital are used to produce widgets according to the production table below:

	Labor Input					
		1	2	3	4	5
	1	20	40	55	65	75
Capital Input	2	40	60	75	85	90
Input	3	55	75	90	100	105
	4	65	85	100	110	115
	5	75	90	105	115	120

a) Draw the TP_L curve when K is fixed at 2 in the short run.

b) Does this production process exhibit diminishing returns? Pick a set of combinations of inputs to illustrate and explain your answer.

c) Does this production function exhibit increasing, constant, or decreasing returns to scale? Pick a set of combinations of inputs to illustrate and explain your answer.