**Assignment I Microeconomics II**

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1. Consider the CES production function: Q = 10

where

Show that CES tends to

1. Cobb-Douglas (C-D) production function as.
2. Leontief production function as .
3. Straight line perfect substitute isoquants as .

Reference. Henderson & Quandt

2. Show that Cobb-Douglas production function satisfies the properties of homogenous production function. 5