Theoretical foundations – 2.2 Microeconomic consumer theory

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Derive the demand function for the Cobb-Douglas utility function with two commodities:

$$\widetilde{U}(q_1, q_2; \theta) = \theta_0 q_1^{\theta_1} q_2^{\theta_2}, \tag{1}$$

where $\theta = (\theta_0, \theta_1, \theta_2)^T$ is a column vector containing three positive parameters representing the tastes of the consumer.