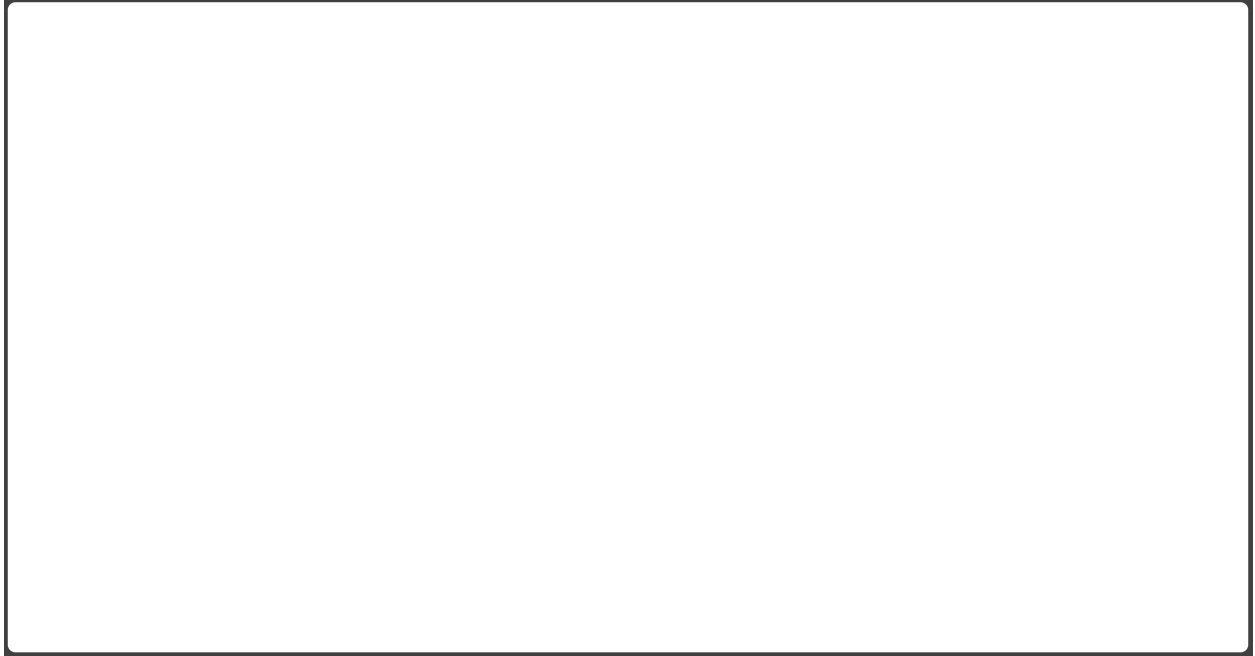


Lecture 11 Worksheet (ECON211), AY 2025-26 [Date: 12 Aug 2025]

1. Divide  $P(x) = x^3 - 6x^2 + 11x - 6$  by  $Q(x) = x - 3$ .



2. The demand for *Sugar Moon Bakery* bacon brioche on weekdays is given by  $P^D = 10 - 4Q^D$  and the supply is given by  $P^S = Q^S + 5$ . The demand, on weekends, goes up and is given by  $P^D = 40 - 4Q^D$ ; the supply remains unchanged. Illustrate the new equilibrium price and quantity graphically.



3. Find the inverse of the function:

$$f(x) = \frac{2x + 3}{x - 1}, \quad x \neq 1$$

4. Find the limit:  $\lim_{x \rightarrow 2} \frac{x^2 - 4}{x - 2}$ .